Australia-Programs

Program No.	Question	Answer
1	**1) Program title**	Radiation Safety Training
	2) Field	■ A. Radioactive Waste Management
		B-1. Radiation/RI Application for Industry
		B-2. Radiation/RI Application for Environment
		B-3. Radiation/RI Application for Health Care
		B-4. Radiation/RI Application for Neutron Application
		B-5. Radiation/RI Other than the Above
		C. Research Reactor
		D. Nuclear Power Reactor
		■ E-1. Nuclear Safety
		■ E-2. Radiation Safety
		F. Policy/Planning/Administration
		G. Others
	3) Outline of the Program	To train people to work safely with radiation, ranging from introductory courses on the safe use of radiation equipment and radioactive sources, through to training of advanced radiation safety officers. Possible topics include the biological effects of radiation, personnel dosimetry, dose rate survey and analysis, shielding, gamma spectrometry, whole body monitoring, safety assessment, emergency response etc.
	4) Method of the Program	Hands on practical training
	5) Schedule of the Program	Periodic - see website for details
	6) Duration	2-5 days
	7) Venue	ANSTO. Lucas Heights
	8) Working Language	English
	9) Application Period	Periodic - see website for details
	10) Eligible Countries	Bangladesh, China, Indonesia, Japan, Kazakhstan, Korea, Malaysia, Mongolia, The Philippines, Sri Lanka, Thailand and Vietnam
	11) Eligible Applicant	Some background experience in working with radiation, level dependent upon particular type of training sought
	12) Capacity	16
	13) Host Organization	Australian Nuclear Science and Technology Organisation (ANSTO)
	14) Host Country	Australia
	15) Sponsorship	Waive training fees
	16) Source of funds	ANSTO
	17) How to Apply	www.ansto.gov.au/BusinessServices/RadiationServices/Radiationsafetytrainingcourses/index.htm
	18) Inquiries	Radiation Safety Educator Radiation Consultancy & Training Services Email: radsafetytraining(atmark)ansto.gov.au (Please replace "(atmark)" with "@") www.ansto.gov.au/BusinessServices/RadiationServices/Radiationsafetytrainingcourses/index.htm

Program No.	Question	Answer	
2	**1) Program title**	Neutron Scattering Applications	
	2) Field		A. Radioactive Waste Management
			B-1. Radiation/RI Application for Industry
			B-2. Radiation/RI Application for Environment
			B-3. Radiation/RI Application for Health Care
		■	B-4. Radiation/RI Application for Neutron Application
			B-5. Radiation/RI Other than the Above
			C. Research Reactor
			D. Nuclear Power Reactor
			E-1. Nuclear Safety
			E-2. Radiation Safety
			F. Policy/Planning/Administration
			G. Others
	3) Outline of the Program	To provide training opportunities in the operation of neutron beam instruments and the application of neutron scattering. Projects may be undertaken on a wide range of instruments associated with the OPAL research reactor, including: high-resolution powder diffractometer, reflectometer, thermal 3-axis spectrometer, Laue diffractometer, small-angle neutron scattering, high intensity powder diffractometer, residual stress diffractometer, neutron imaging, radiography and tomography.	
	4) Method of the Program	Hands on practical training	
	5) Schedule of the Program	By negotiation	
	6) Duration	3mths - 3 yrs	
	7) Venue	ANSTO, Lucas Heights	
	8) Working Language	English	
	9) Application Period	By negotiation	
	10) Eligible Countries	Bangladesh, China, Indonesia, Japan, Kazakhstan, Korea, Malaysia, Mongolia, The Philippines, Sri Lanka, Thailand and Vietnam	
	11) Eligible Applicant	Relevant science or engineeering degree	
	12) Capacity	Individual	
	13) Host Organization	Australian Nuclear Science and Technology Organisation (ANSTO)	
	14) Host Country	Australia	
	15) Sponsorship	Waive training fees	
	16) Source of funds	ANSTO	
	17) How to Apply	www.ansto.gov.au/ResearchHub/Bragg/index.htm	
	18) Inquiries	Dr Rob Robinson Head, Bragg Institute, ANSTO Email: rro(atmark)ansto.gov.au (Please replace "(atmark)" with "@") www.ansto.gov.au/ResearchHub/Bragg/index.htm	

Program No.	Question	Answer	
3	**1) Program title**	Neutron Scattering Applications	
	2) Field		A. Radioactive Waste Management
			B-1. Radiation/RI Application for Industry
			B-2. Radiation/RI Application for Environment
			B-3. Radiation/RI Application for Health Care
		■	B-4. Radiation/RI Application for Neutron Application
			B-5. Radiation/RI Other than the Above
			C. Research Reactor
			D. Nuclear Power Reactor
			E-1. Nuclear Safety
			E-2. Radiation Safety
			F. Policy/Planning/Administration
			G. Others
	3) Outline of the Program	To provide training opportunities in the operation of neutron beam instruments and the application of neutron scattering. Projects may be undertaken on a wide range of instruments associated with the OPAL research reactor, including: high-resolution powder diffractometer, reflectometer, thermal 3-axis spectrometer, Laue diffractometer, small-angle neutron scattering, high intensity powder diffractometer, residual stress diffractometer, neutron imaging, radiography and tomography. Fees apply.	
	4) Method of the Program	Lectures and hands-on practical training	
	5) Schedule of the Program	Annually	
	6) Duration	5 days	
	7) Venue	ANSTO, Lucas Heights	
	8) Working Language	English	
	9) Application Period	See Website	
	10) Eligible Countries	Bangladesh, China, Indonesia, Japan, Kazakhstan, Korea, Malaysia, Mongolia, The Philippines, Sri Lanka, Thailand and Vietnam	
	11) Eligible Applicant	This school is aimed at PhD students, post docs and other novice users and will be limited to 35 people. Participants will be selected based on an abstract (300 words max.) outlining an aspect of their scientific project to be presented as a poster at the school. The abstract should also address how neutrons could help in their research projects, give the name of the supervisor and indicate which instrument to use in the practicals.	
	12) Capacity	35	
	13) Host Organization	Australian Nuclear Science and Technology Organisation (ANSTO)	
	14) Host Country	Australia	
	15) Sponsorship	not applicable	
	16) Source of funds	ANSTO	
	17) How to Apply	www.ansto.gov.au/ResearchHub/Bragg/CurrentResearch/ConferencesandWorkshops/index.htm	
	18) Inquiries	Dr Joseph Bevitt, Bragg Institute, ANSTO Email: joseph.bevitt(atmark)ansto.gov.au (Please replace "(atmark)" with "@") www.ansto.gov.au/ResearchHub/Bragg/CurrentResearch/ConferencesandWorkshops/index.htm	

Program No.	Question	Answer	
4	**1) Program title**	Foundations of PET-CT	
	2) Field		A. Radioactive Waste Management
			B-1. Radiation/RI Application for Industry
			B-2. Radiation/RI Application for Environment
		■	B-3. Radiation/RI Application for Health Care
			B-4. Radiation/RI Application for Neutron Application
			B-5. Radiation/RI Other than the Above
			C. Research Reactor
			D. Nuclear Power Reactor
			E-1. Nuclear Safety
			E-2. Radiation Safety
			F. Policy/Planning/Administration
			G. Others
	3) Outline of the Program	A professional development program on Positron Emission Tomography-X-ray Computerised Tomography (PET-CT) designed to integrate the most recent knowledge and skills related to safety, technical and clinical practice. This comprehensive 10-day training course is suitable for physicians, scientists and technologists. Through lectures, workshops and clinical sessions the course provides essential strategies for creating quality assurance and best practice for a safe environment and an efficient clinical service. The course also promotes team coordination for effective application of the technology.	
	4) Method of the Program	1. Lectures and Workshops at the University of Sydney in collaboration with selected PET-CT clinical and research centres in Sydney. The lectures and workshops provide the participants with cutting edge knowledge to advance their understanding of best PET-CT practice. 2. Observation of Practice (clinical site visits) linked to lecture themes. The site visits will enable participants to learn and observe physical and practical approaches to PET-CT applications.	
	5) Schedule of the Program	Anually (see website)	
	6) Duration	10 days	
	7) Venue	University of Sydney	
	8) Working Language	English	
	9) Application Period	Anually (see website)	
	10) Eligible Countries	Bangladesh, China, Indonesia, Japan, Kazakhstan, Korea, Malaysia, Mongolia, The Philippines, Sri Lanka, Thailand and Vietnam	
	11) Eligible Applicant	Good understanding of radiation safety and prior experience in a clinical nuclear medicine environment.	
	12) Capacity	20	
	13) Host Organization	National Imaging Facility - ANSTO in collaboration with University of Sydney	
	14) Host Country	Australia	
	15) Sponsorship	Opportunity of expenses Award for eligible applicants from most countries.	
	16) Source of funds	ANSTO - IAEA	
	17) How to Apply	www.ansto.gov.au/ResearchHub/LifeSciences/ServicesandTools/EducationandOutreach/index.htm	
	18) Inquiries	Heather Patterson International Education Projects Manager, ANSTO heatherp(atmark)ansto.gov.au (Please replace "(atmark)" with "@") www.ansto.gov.au/ResearchHub/LifeSciences/ServicesandTools/EducationandOutreach/index.htm	

Program No.	Question	Answer	
5	**1) Program title**	Distance Assisted Training for Nuclear Medicine Professionals	
	2) Field		A. Radioactive Waste Management
			B-1. Radiation/RI Application for Industry
			B-2. Radiation/RI Application for Environment
		■	B-3. Radiation/RI Application for Health Care
			B-4. Radiation/RI Application for Neutron Application
			B-5. Radiation/RI Other than the Above
			C. Research Reactor
			D. Nuclear Power Reactor
			E-1. Nuclear Safety
			E-2. Radiation Safety
			F. Policy/Planning/Administration
			G. Others
	3) Outline of the Program	A structured training program for nuclear medicine professionals developed through an IAEA/RCA project and continues to be coordinated by the Australian developers, under the auspices of the IAEA. DAT was initially designed for NM technologists but with additional materials including SPECT/CT and PET/CT, it is now also suitable for other NM professional groups and it provides skills enhancement through a work-integrated problem-solving approach to understanding practical applications.	
	4) Method of the Program	On-line access available to registered trainees as part of national and regional DAT programmes. Work integrated learning and on-line facility permits direct student assessment and ongoing monitoring of progress as well as encouraging student interaction.	
	5) Schedule of the Program	Ongoing	
	6) Duration	Part 1: ~600hrs Part 2: ~300hrs	
	7) Venue	N/A (On-line)	
	8) Working Language	English and Spanish	
	9) Application Period	Open to eligible countries.	
	10) Eligible Countries	Bangladesh, China, Indonesia, Japan, Kazakhstan, Korea, Malaysia, Mongolia, The Philippines, Sri Lanka, Thailand and Vietnam	
	11) Eligible Applicant	Program managed at a National level under direction of a National Responsible Authority. Participants must work in fully functional nuclear medicine and/or PET dept.	
	12) Capacity	Open	
	13) Host Organization	Program managed at a National level under direction of a National Responsible Authority. Participants must work in fully functional nuclear medicine and/or PET dept.	
	14) Host Country	Australia	
	15) Sponsorship	Free of charge - local/national implementation costs only.	
	16) Source of funds	ANSTO - IAEA	
	17) How to Apply	www.ansto.gov.au/ResearchHub/LifeSciences/ServicesandTools/EducationandOutreach/index.htm	
	18) Inquiries	Heather Patterson International Education Projects Manager, ANSTO heatherp(atmark)ansto.gov.au (Please replace "(atmark)" with "@") www.ansto.gov.au/ResearchHub/LifeSciences/ServicesandTools/EducationandOutreach/index.htm	

Program No.	Question	Answer	
6	**1) Program title**	Master of Nuclear Science	
	2) Field		A. Radioactive Waste Management
		■	B-1. Radiation/RI Application for Industry
			B-2. Radiation/RI Application for Environment
		■	B-3. Radiation/RI Application for Health Care
		■	B-4. Radiation/RI Application for Neutron Application
		■	B-5. Radiation/RI Other than the Above
			C. Research Reactor
			D. Nuclear Power Reactor
			E-1. Nuclear Safety
			E-2. Radiation Safety
		■	F. Policy/Planning/Administration
			G. Others
	3) Outline of the Program	The degree is a coursework graduate program that provides a pathway for graduates to acquire skills and renew or extend understanding of the current issues in nuclear science and technology. Fees apply. Semester one offers Nuclear Fundamentals (PHYS8201), Reactor Science (PHYS8202), Accelerator Science (PHYS8203) and Nuclear Radiation (PHYS8204). Semester two offers Nuclear Fuel Cycle (PHYS8205) and Nuclear Measurement (PHYS8206). In semester 2, students can also take the Strategic Studies course Nuclear Strategy in the Asian Century (STST8026). In both semesters the Special Research Project (PHYS8207) can be taken. The research project can be a 6 or 12 point course. Students also can choose other Strategic Studies or Science Communication courses according to their interests. There is flexibility to focus on the science or the policy aspects of nuclear science and technology.	
	4) Method of the Program	The course combines contact course work with opportunities to acquire or extend practical skills. All “lecture” courses are run as “intensives” to cater for the fact that most of our students are also working full time and take the masters program part time. After the intensive contact hours, there are reading and homework exercises to consolidate what has been discussed in lectures and investigated in the lab work. To date we have been able to schedule these intensive courses (generally a week of lectures and lab work) to suit those enrolled. International students must take the program full time.	
	5) Schedule of the Program	Annually	
	6) Duration	1 year	
	7) Venue	Australian National University, Canberra	
	8) Working Language	English	
	9) Application Period	See webite for University Admission Centre (UAC) details. Students are allowed to commence in either semester. Prospective students can apply at any time as offers are made continuously. See; http://www.anu.edu.au/sas/admission/	
	10) Eligible Countries	Bangladesh, China, Indonesia, Japan, Kazakhstan, Korea, Malaysia, Mongolia, The Philippines, Sri Lanka, Thailand and Vietnam	
	11) Eligible Applicant	An undergraduate degree in science or engineering is preferred. Prospective students with different 3-year degrees would also be considered, taking into account their relevant academic background and professional or other experience.	
	12) Capacity	open	
	13) Host Organization	Australian National University (ANU)	
	14) Host Country	Australia	
	15) Sponsorship	not applicable	
	16) Source of funds	Australian National University (ANU)	
	17) How to Apply	physics.anu.edu.au/education/master_nuclear.php	
	18) Inquiries	Andrew Stuchbery, Head of Department, Department of Nuclear Physics Physics Education Centre, Australian National University physics.anu.edu.au/education/master_nuclear.php	

Program No.	Question	Answer	
7	**1) Program title**	Master of Molecular Imaging	
	2) Field		A. Radioactive Waste Management
			B-1. Radiation/RI Application for Industry
			B-2. Radiation/RI Application for Environment
		■	B-3. Radiation/RI Application for Health Care
			B-4. Radiation/RI Application for Neutron Application
			B-5. Radiation/RI Other than the Above
			C. Research Reactor
			D. Nuclear Power Reactor
			E-1. Nuclear Safety
			E-2. Radiation Safety
			F. Policy/Planning/Administration
		■	G. Others
	3) Outline of the Program	This course explores in depth the scientific principles and applications of the key molecular imaging technologies in life science research and biotechnology. Fees apply.	
	4) Method of the Program	The course is taught in a blend of distance mode learning and face to face lectures, tutorials and workshops. A range of e-learning technologies will allow the student to direct their learning, monitor achievements and collaborate with fellow students.	
	5) Schedule of the Program	Annually	
	6) Duration	1 year	
	7) Venue	University Sydney; University Queensland, Brisbane	
	8) Working Language	English	
	9) Application Period	Annually. See webite for University Admission Centre (UAC) details.	
	10) Eligible Countries	Bangladesh, China, Indonesia, Japan, Kazakhstan, Korea, Malaysia, Mongolia, The Philippines, Sri Lanka, Thailand and Vietnam	
	11) Eligible Applicant	Applicants will be eligible for admission to the course if they meet the following minimum criteria: •Successful completion of a relevant Bachelors degree or equivalent from a recognised tertiary institution with a minimum credit (65%) average •Examples of relevant degrees include Science (major in physics, chemistry or biology), Medical Science, Pharmacy, Engineering (major in electrical or biomedical) and Computer Science. •For international students* an IELTS score of 7 with a minimum of 6.5 in each band (or TOEFL equivalent) is required.	
	12) Capacity	open	
	13) Host Organization	The University of Sydney	
	14) Host Country	Australia	
	15) Sponsorship	not applicable	
	16) Source of funds	The University of Sydney, The University of Queensland	
	17) How to Apply	sydney.edu.au/health-sciences/mmipgc.shtml	
	18) Inquiries	Professor Steven Meikle, Brain and Mind Research Institute University of Sydney sydney.edu.au/health-sciences/mmipgc.shtml	

Program No.	Question	Answer	
8	**1) Program title**	Masters in Engineering Science in Nuclear Engineering	
	2) Field	■	A. Radioactive Waste Management
		■	B-1. Radiation/RI Application for Industry
			B-2. Radiation/RI Application for Environment
			B-3. Radiation/RI Application for Health Care
		■	B-4. Radiation/RI Application for Neutron Application
			B-5. Radiation/RI Other than the Above
		■	C. Research Reactor
		■	D. Nuclear Power Reactor
		■	E-1. Nuclear Safety
		■	E-2. Radiation Safety
			F. Policy/Planning/Administration
			G. Others
	3) Outline of the Program	The Masters in Nuclear Engineering presents a coherent set of classes that builds on graduate engineering skills and knowledge. The broad aims of the course are to provide advanced understanding of: • The basics of nuclear engineering; • The fuel cycle; • The engineering and physics of nuclear reactors; • Life-cycle and waste management; • Safety, safeguard and security systems. With elective opportunities in: • Power system operation and economic assessment; • Uranium mining fundamentals; • Nuclear techniques for structural engineering and materials characterisation	
	4) Method of the Program	1 to 2-year full-time Masters program at the University of New South Wales, Sydeny, Australia	
	5) Schedule of the Program	Intakes in February and July each year	
	6) Duration	9-12 months full time	
	7) Venue	University of New South Wales, Sydney, Australia	
	8) Working Language	English	
	9) Application Period	Overseas application deadline end of November for February intake and end of March for July intake.	
	10) Eligible Countries		
	11) Eligible Applicant	Minimum upper second class Bachelor graduate in Engineering discipline or equivalent.	
	12) Capacity	20	
	13) Host Organization	University of New South Wales, Sydney, Australia	
	14) Host Country	Australia	
	15) Sponsorship	None	
	16) Source of funds		
	17) How to Apply	http://www.handbook.unsw.edu.au/postgraduate/plans/2014/ENGGOS8538.html or contact John Fletcher john.fletcher@unsw.edu.au	
	18) Inquiries	Dr John Fletcher john.fletcher(atmark)unsw.edu.au (Please replace "(atmark)" with "@")	

Bangladesh-Programs

Program No.	Question	Answer
1	**1) Program title**	Radiation Safety and Waste Management
	2) Field	☑ A. Radioactive Waste Management ☐ B-1. Radiation/RI Application for Industry ☐ B-2. Radiation/RI Application for Environment ☐ B-3. Radiation/RI Application for Health Care ☐ B-4. Radiation/RI Application for Neutron Application ☐ B-5. Radiation/RI Other than the Above ☐ C. Research Reactor ☐ D. Nuclear Power Reactor ☐ E-1. Nuclear Safety ☑ E-2. Radiation Safety ☐ F. Policy/Planning/Administration ☐ G. Others
	3) Outline of the Program	Environmental and Occupational Radiation Monitoring Measurement of Radionuclide in food, vegetables & soil samples and Management of Radioactive wastes
	4) Method of the Program	Lecture with Laboratory Support
	5) Schedule of the Program	
	6) Duration	
	7) Venue	
	8) Working Language	
	9) Application Period	
	10) Eligible Countries	
	11) Eligible Applicant	
	12) Capacity	
	13) Host Organization	
	14) Host Country	Bangladesh
	15) Sponsorship	* Local Transportation and Food * Accommodation at Training Institute, Savar, Dhaka (53 Rooms, Limited Internet Facility)
	16) Source of funds	
	17) How to Apply	
	18) Inquiries	

Program No.	Question	Answer
2	**1) Program title**	Waste Management
	2) Field	☑ A. Radioactive Waste Management ☐ B-1. Radiation/RI Application for Industry ☐ B-2. Radiation/RI Application for Environment ☐ B-3. Radiation/RI Application for Health Care ☐ B-4. Radiation/RI Application for Neutron Application ☐ B-5. Radiation/RI Other than the Above ☐ C. Research Reactor ☐ D. Nuclear Power Reactor ☐ E-1. Nuclear Safety ☐ E-2. Radiation Safety ☐ F. Policy/Planning/Administration ☐ G. Others
	3) Outline of the Program	Safety Assessment of Radioactive waste
	4) Method of the Program	Lecture with Laboratory Support
	5) Schedule of the Program	
	6) Duration	
	7) Venue	
	8) Working Language	
	9) Application Period	
	10) Eligible Countries	
	11) Eligible Applicant	
	12) Capacity	
	13) Host Organization	
	14) Host Country	Bangladesh
	15) Sponsorship	* Local Transportation and Food * Accommodation at Training Institute, Savar, Dhaka (53 Rooms, Limited Internet Facility)
	16) Source of funds	
	17) How to Apply	
	18) Inquiries	

Program No.	Question	Answer
3	**1) Program title**	Isotope Production
	2) Field	☐ A. Radioactive Waste Management ☐ B-1. Radiation/RI Application for Industry ☐ B-2. Radiation/RI Application for Environment ☐ B-3. Radiation/RI Application for Health Care ☐ B-4. Radiation/RI Application for Neutron Application ☑ B-5. Radiation/RI Other than the Above ☐ C. Research Reactor ☐ D. Nuclear Power Reactor ☐ E-1. Nuclear Safety ☐ E-2. Radiation Safety ☐ F. Policy/Planning/Administration ☐ G. Others
	3) Outline of the Program	QA/QC and GMP aspects of TC-99m Generator Production From Fission Mo-99
	4) Method of the Program	Lecture with Laboratory Support
	5) Schedule of the Program	
	6) Duration	
	7) Venue	
	8) Working Language	
	9) Application Period	
	10) Eligible Countries	
	11) Eligible Applicant	
	12) Capacity	
	13) Host Organization	
	14) Host Country	Bangladesh
	15) Sponsorship	* Local Transportation and Food * Accommodation at Training Institute, Savar, Dhaka (53 Rooms, Limited Internet Facility)
	16) Source of funds	
	17) How to Apply	
	18) Inquiries	

Program No.	Question	Answer
4	**1) Program title**	Nuclear Medicine
	2) Field	☐ A. Radioactive Waste Management ☐ B-1. Radiation/RI Application for Industry ☐ B-2. Radiation/RI Application for Environment ☑ B-3. Radiation/RI Application for Health Care ☐ B-4. Radiation/RI Application for Neutron Application ☐ B-5. Radiation/RI Other than the Above ☐ C. Research Reactor ☐ D. Nuclear Power Reactor ☐ E-1. Nuclear Safety ☐ E-2. Radiation Safety ☐ F. Policy/Planning/Administration ☐ G. Others
	3) Outline of the Program	Clinical analysis, Quality Assurance, Quality Control of Nuclear images and Instruments. Radiation safety, Radionuclide Therapy, knowledge on SPECT and nuclear oncology related programs
	4) Method of the Program	Lecture and Faculty Visit
	5) Schedule of the Program	
	6) Duration	
	7) Venue	
	8) Working Language	
	9) Application Period	
	10) Eligible Countries	
	11) Eligible Applicant	
	12) Capacity	
	13) Host Organization	
	14) Host Country	Bangladesh
	15) Sponsorship	* Local Transportation and Food * Accommodation at Training Institute, Savar, Dhaka (53 Rooms, Limited Internet Facility)
	16) Source of funds	
	17) How to Apply	
	18) Inquiries	

Program No.	Question	Answer
5	**1) Program title**	Research Reactor Operation and Maintenance
	2) Field	☐ A. Radioactive Waste Management ☐ B-1. Radiation/RI Application for Industry ☐ B-2. Radiation/RI Application for Environment ☐ B-3. Radiation/RI Application for Health Care ☐ B-4. Radiation/RI Application for Neutron Application ☐ B-5. Radiation/RI Other than the Above ☑ C. Research Reactor ☐ D. Nuclear Power Reactor ☐ E-1. Nuclear Safety ☐ E-2. Radiation Safety ☐ F. Policy/Planning/Administration ☐ G. Others
	3) Outline of the Program	Operational of TRIGA Mark II Research Reactor and Repair & Maintenance and Installation of various necessary equipments
	4) Method of the Program	Lecture with Laboratory Support
	5) Schedule of the Program	
	6) Duration	
	7) Venue	
	8) Working Language	
	9) Application Period	
	10) Eligible Countries	
	11) Eligible Applicant	
	12) Capacity	
	13) Host Organization	
	14) Host Country	Bangladesh
	15) Sponsorship	* Local Transportation and Food * Accommodation at Training Institute, Savar, Dhaka (53 Rooms, Limited Internet Facility)
	16) Source of funds	
	17) How to Apply	
	18) Inquiries	

Program No.	Question	Answer
6	**1) Program title**	Research Reactor Operation and Maintenance
	2) Field	☐ A. Radioactive Waste Management ☐ B-1. Radiation/RI Application for Industry ☐ B-2. Radiation/RI Application for Environment ☐ B-3. Radiation/RI Application for Health Care ☐ B-4. Radiation/RI Application for Neutron Application ☐ B-5. Radiation/RI Other than the Above ☑ C. Research Reactor ☐ D. Nuclear Power Reactor ☑ E-1. Nuclear Safety ☐ E-2. Radiation Safety ☐ F. Policy/Planning/Administration ☐ G. Others
	3) Outline of the Program	Safety analysis and assessment of research reactor
	4) Method of the Program	
	5) Schedule of the Program	Lecture with Laboratory Support
	6) Duration	
	7) Venue	
	8) Working Language	
	9) Application Period	
	10) Eligible Countries	
	11) Eligible Applicant	
	12) Capacity	
	13) Host Organization	
	14) Host Country	Bangladesh
	15) Sponsorship	* Local Transportation and Food * Accommodation at Training Institute, Savar, Dhaka (53 Rooms, Limited Internet Facility)
	16) Source of funds	
	17) How to Apply	
	18) Inquiries	

Program No.	Question	Answer
7	**1) Program title**	Non Destructive Testing (NDT)
	2) Field	☐ A. Radioactive Waste Management ☑ B-1. Radiation/RI Application for Industry ☐ B-2. Radiation/RI Application for Environment ☐ B-3. Radiation/RI Application for Health Care ☐ B-4. Radiation/RI Application for Neutron Application ☐ B-5. Radiation/RI Other than the Above ☐ C. Research Reactor ☐ D. Nuclear Power Reactor ☐ E-1. Nuclear Safety ☐ E-2. Radiation Safety ☐ F. Policy/Planning/Administration ☐ G. Others
	3) Outline of the Program	NDT Techniques on Metallic Structure
	4) Method of the Program	Lecture with Laboratory Support
	5) Schedule of the Program	
	6) Duration	
	7) Venue	
	8) Working Language	
	9) Application Period	
	10) Eligible Countries	
	11) Eligible Applicant	
	12) Capacity	
	13) Host Organization	
	14) Host Country	Bangladesh
	15) Sponsorship	* Local Transportation and Food * Accommodation at Training Institute, Savar, Dhaka (53 Rooms, Limited Internet Facility)
	16) Source of funds	
	17) How to Apply	
	18) Inquiries	

Program No.	Question	Answer
8	**1) Program title**	Neutron Activation Analysis
	2) Field	☐ A. Radioactive Waste Management ☐ B-1. Radiation/RI Application for Industry ☐ B-2. Radiation/RI Application for Environment ☐ B-3. Radiation/RI Application for Health Care ☑ B-4. Radiation/RI Application for Neutron Application ☐ B-5. Radiation/RI Other than the Above ☐ C. Research Reactor ☐ D. Nuclear Power Reactor ☐ E-1. Nuclear Safety ☐ E-2. Radiation Safety ☐ F. Policy/Planning/Administration ☐ G. Others
	3) Outline of the Program	Practice and Application of Neutron Activation Analysis in Geochemical studies
	4) Method of the Program	
	5) Schedule of the Program	
	6) Duration	
	7) Venue	
	8) Working Language	
	9) Application Period	
	10) Eligible Countries	
	11) Eligible Applicant	
	12) Capacity	
	13) Host Organization	
	14) Host Country	Bangladesh
	15) Sponsorship	* Local Transportation and Food * Accommodation at Training Institute, Savar, Dhaka (53 Rooms, Limited Internet Facility)
	16) Source of funds	
	17) How to Apply	
	18) Inquiries	

Indonesia-Programs

Program No.	Question	Answer
1	**1) Program title**	Detection/Operation/Maintenance/Ageing management of Research Reactor
	2) Field	☐ A. Radioactive Waste Management ☐ B-1. Radiation/RI Application for Industry ☐ B-2. Radiation/RI Application for Environment ☐ B-3. Radiation/RI Application for Health Care ☐ B-4. Radiation/RI Application for Neutron Application ☐ B-5. Radiation/RI Other than the Above ☑ C. Research Reactor ☐ D. Nuclear Power Reactor ☐ E-1. Nuclear Safety ☐ E-2. Radiation Safety ☐ F. Policy/Planning/Administration ☐ G. Others
	3) Outline of the Program	To increase capability of workplace accomplishing day to day tasks especially on indentifying, predicting and maintaining of SSC of research reactor during its cycle life
	4) Method of the Program	training or OJT
	5) Schedule of the Program	TBD
	6) Duration	TBD
	7) Venue	Multi Purpose Reactor – BATAN Serpong, Indonesia
	8) Working Language	English
	9) Application Period	2014
	10) Eligible Countries	FNCA Member Countries
	11) Eligible Applicant	Nuclear engineering, physics, electrical engineering, mechanical engineering
	12) Capacity	3 persons
	13) Host Organization	Center for Multi Purpose Reactor – BATAN
	14) Host Country	Indonesia
	15) Sponsorship	Training Fee, including the expendables
	16) Source of funds	
	17) How to Apply	
	18) Inquiries	

Program No.	Question	Answer
2	**1) Program title**	Radioactive Waste Management Programme
	2) Field (Please categorize the program, by checking the box.Please refer to the sheet "Classification of the fields" in this file)	☑ A. Radioactive Waste Management ☐ B-1. Radiation/RI Application for Industry ☐ B-2. Radiation/RI Application for Environment ☐ B-3. Radiation/RI Application for Health Care ☐ B-4. Radiation/RI Application for Neutron Application ☐ B-5. Radiation/RI Other than the Above ☐ C. Research Reactor ☐ D. Nuclear Power Reactor ☐ E-1. Nuclear Safety ☐ E-2. Radiation Safety ☐ F. Policy/Planning/Administration ☐ G. Others
	3) Outline of the Program (Please provide objective, contents of the program)	Radioactive waste treatment of liquid waste using evaporation and chemical methods to condition the concentrate, spent resin, sludge etc using cementation equipment and also for solid waste using compaction .
	4) Method of the Program (Training, seminar, OJT, skill-up, etc.)	OJT
	5) Schedule of the Program (Date, year of beginning and ending)	TBD
	6) Duration (ex; XX months)	1 – 2 Months
	7) Venue (Place where the program takes place)	Radioactive Waste Management Facility – BATAN Serpong, Indonesia
	8) Working Language	English
	9) Application Period (Date, year of beginning and ending of application)	2014
	10) Eligible Countries (Please provide the name of countries which can participate to the program)	FNCA Member Countries
	11) Eligible Applicant (Level, background)	Researcher in the field of nuclear waste management
	12) Capacity (How many person can you accept?)	2 persons
	13) Host Organization	Center for Nuclear Waste Management – BATAN
	14) Host Country	Indonesia
	15) Sponsorship (If there is any sponsorship such as airfare, accommodation, tuition waiver, please describe.)	Training Fee, including the expendables
	16) Source of funds (Indicate the source of funds.)	
	17) How to Apply (Please describe how to apply/or URL that shows application procedure)	
	18) Inquiries (Please provide the name, phone & fax number, postal address of contact person of the program)	

Program No.	Question	Answer
3	**1) Program title**	Installation and Maintenance of Nuclear Spectroscopy and Its application
	2) Field (Please categorize the program, by checking the box.Please refer to the sheet "Classification of the fields" in this file)	☐ A. Radioactive Waste Management ☐ B-1. Radiation/RI Application for Industry ☐ B-2. Radiation/RI Application for Environment ☐ B-3. Radiation/RI Application for Health Care ☐ B-4. Radiation/RI Application for Neutron Application ☐ B-5. Radiation/RI Other than the Above ☐ C. Research Reactor ☐ D. Nuclear Power Reactor ☐ E-1. Nuclear Safety ☐ E-2. Radiation Safety ☐ F. Policy/Planning/Administration ☑ G. Others
	3) Outline of the Program (Please provide objective, contents of the program)	Train the participants to install and maintain the nuclear instruments such as counting and spectroscopy system, which are used for industrial and environmental applications.
	4) Method of the Program (Training, seminar, OJT, skill-up, etc.)	OJT
	5) Schedule of the Program (Date, year of beginning and ending)	TBD
	6) Duration (ex; XX months)	1 – 2 Months
	7) Venue (Place where the program takes place)	Training Facility – BATAN Pasar Jumat, Jakarta
	8) Working Language	English
	9) Application Period (Date, year of beginning and ending of application)	Begining of 2014
	10) Eligible Countries (Please provide the name of countries which can participate to the program)	FNCA Member Countries
	11) Eligible Applicant (Level, background)	Researcher or engineer who works in the radiation measurement field
	12) Capacity (How many person can you accept?)	2 – 3 Persons
	13) Host Organization	Center for Education and Training _ BATAN
	14) Host Country	Indonesia
	15) Sponsorship (If there is any sponsorship such as airfare, accommodation, tuition waiver, please describe.)	Training Fee, including the expendables
	16) Source of funds (Indicate the source of funds.)	
	17) How to Apply (Please describe how to apply/or URL that shows application procedure)	
	18) Inquiries (Please provide the name, phone & fax number, postal address of contact person of the program)	

Program No.	Question	Answer
4	**1) Program title**	Microcontroller Application for Refurbishment of Nuclear Instrument in LabVIEW Environment
	2) Field (Please categorize the program, by checking the box.Please refer to the sheet "Classification of the fields" in this file)	☐ A. Radioactive Waste Management ☐ B-1. Radiation/RI Application for Industry ☐ B-2. Radiation/RI Application for Environment ☐ B-3. Radiation/RI Application for Health Care ☐ B-4. Radiation/RI Application for Neutron Application ☐ B-5. Radiation/RI Other than the Above ☐ C. Research Reactor ☐ D. Nuclear Power Reactor ☐ E-1. Nuclear Safety ☐ E-2. Radiation Safety ☐ F. Policy/Planning/Administration ☑ G. Others
	3) Outline of the Program (Please provide objective, contents of the program)	Train the participants to program and assembly microcontroller as a high integrated omponent in refurbishment of nuclear instrument and to program a user friendly software using LabVIEW
	4) Method of the Program (Training, seminar, OJT, skill-up, etc.)	OJT
	5) Schedule of the Program (Date, year of beginning and ending)	TBD
	6) Duration (ex; XX months)	1 – 2 Months
	7) Venue (Place where the program takes place)	Training Facility – BATAN Pasar Jumat, Jakarta
	8) Working Language	English
	9) Application Period (Date, year of beginning and ending of application)	Begining of 2014
	10) Eligible Countries (Please provide the name of countries which can participate to the program)	FNCA Member Countries
	11) Eligible Applicant (Level, background)	Researcher or engineer who works in the radiation measurement field
	12) Capacity (How many person can you accept?)	2 – 3 Persons
	13) Host Organization	Center for Education and Training _ BATAN
	14) Host Country	Indonesia
	15) Sponsorship (If there is any sponsorship such as airfare, accommodation, tuition waiver, please describe.)	Training Fee, including the expendables
	16) Source of funds (Indicate the source of funds.)	
	17) How to Apply (Please describe how to apply/or URL that shows application procedure)	
	18) Inquiries (Please provide the name, phone & fax number, postal address of contact person of the program)	

Program No.	Question	Answer
5	**1) Program title**	Regional Accelerator School
	2) Field (Please categorize the program, by checking the box.Please refer to the sheet "Classification of the fields" in this file)	☐ A. Radioactive Waste Management ☐ B-1. Radiation/RI Application for Industry ☐ B-2. Radiation/RI Application for Environment ☑ B-3. Radiation/RI Application for Health Care ☐ B-4. Radiation/RI Application for Neutron Application ☐ B-5. Radiation/RI Other than the Above ☐ C. Research Reactor ☐ D. Nuclear Power Reactor ☐ E-1. Nuclear Safety ☐ E-2. Radiation Safety ☐ F. Policy/Planning/Administration ☐ G. Others
	3) Outline of the Program (Please provide objective, contents of the program)	cover basic accelerator physics, technology and applications.
	4) Method of the Program (Training, seminar, OJT, skill-up, etc.)	Training
	5) Schedule of the Program (Date, year of beginning and ending)	TBD
	6) Duration (ex; XX months)	2 weeks
	7) Venue (Place where the program takes place)	Accelerator Facility – BATAN Yogyakarta, Indonesia
	8) Working Language	English
	9) Application Period (Date, year of beginning and ending of application)	Begining of 2014
	10) Eligible Countries (Please provide the name of countries which can participate to the program)	FNCA Member Countries
	11) Eligible Applicant (Level, background)	The young scientists, researchers and developers dealing with the many type of accelerators
	12) Capacity (How many person can you accept?)	5 Persons
	13) Host Organization	Center for Education and Training _ BATAN
	14) Host Country	Indonesia
	15) Sponsorship (If there is any sponsorship such as airfare, accommodation, tuition waiver, please describe.)	Training Fee, including the expendables Accomodation
	16) Source of funds (Indicate the source of funds.)	
	17) How to Apply (Please describe how to apply/or URL that shows application procedure)	
	18) Inquiries (Please provide the name, phone & fax number, postal address of contact person of the program)	

Program No.	Question	Answer
6	**1) Program title**	Workshop on Clustering for High Performance Computing
	2) Field (Please categorize the program, by checking the box.Please refer to the sheet "Classification of the fields" in this file)	☐ A. Radioactive Waste Management ☐ B-1. Radiation/RI Application for Industry ☐ B-2. Radiation/RI Application for Environment ☐ B-3. Radiation/RI Application for Health Care ☐ B-4. Radiation/RI Application for Neutron Application ☐ B-5. Radiation/RI Other than the Above ☐ C. Research Reactor ☐ D. Nuclear Power Reactor ☐ E-1. Nuclear Safety ☐ E-2. Radiation Safety ☐ F. Policy/Planning/Administration ☑ G. Others
	3) Outline of the Program (Please provide objective, contents of the program)	The workshop aims to provide the skills needed to benefit from this generation of HPC solutions, giving a basic knowledge of programming, administering and tuning, as well purchasing or building Linux-based clusters.
	4) Method of the Program (Training, seminar, OJT, skill-up, etc.)	Training
	5) Schedule of the Program (Date, year of beginning and ending)	TBD
	6) Duration (ex; XX months)	1 weeks
	7) Venue (Place where the program takes place)	Training Facility – BATAN Jakarta, Indonesia
	8) Working Language	English
	9) Application Period (Date, year of beginning and ending of application)	Begining of 2014
	10) Eligible Countries (Please provide the name of countries which can participate to the program)	FNCA Member Countries
	11) Eligible Applicant (Level, background)	The young information technology (IT) engineers or scientists
	12) Capacity (How many person can you accept?)	5 Persons
	13) Host Organization	Center for Education and Training _ BATAN
	14) Host Country	Indonesia
	15) Sponsorship (If there is any sponsorship such as airfare, accommodation, tuition waiver, please describe.)	Training Fee, including the expendables Accomodation
	16) Source of funds (Indicate the source of funds.)	
	17) How to Apply (Please describe how to apply/or URL that shows application procedure)	
	18) Inquiries (Please provide the name, phone & fax number, postal address of contact person of the program)	

Japan-Programs

No.	Question	Answer
1	**1) Program title**	MEXT Nuclear Research Exchange Program (NREP) 2013 FNCA Research Course "Biofertilizer"
	2) Field	☐ A. Radioactive Waste Management ☐ B-1. Radiation/RI Application for Industry ■ B-2. Radiation/RI Application for Environment ☐ B-3. Radiation/RI Application for Health Care ☐ B-4. Radiation/RI Application for Neutron Application ☐ B-5. Radiation/RI Other than the Above ☐ C. Research Reactor ☐ D. Nuclear Power Reactor ☐ E-1. Nuclear Safety ☐ E-2. Radiation Safety ☐ F. Policy/Planning/Administration ☐ G. Others
	3) Outline of the Program	Characterization of soil microorganisms for biofertilizers of rice or several leguminous crops and evaluation of synergy effects on crop promotion activities caused by the biofertilizers and oligo-chitosan
	4) Method of the Program	Cooperative research Step 1: The researcher can explore soil microorganism for biofertilizers in own country in advance and use it in the research. Step 2: Selection of isolates Step 3: Apply those novel biofertilizer to several crops with oligo-chitosan
	5) Schedule of the Program	Negotiable
	6) Duration	7 months
	7) Venue	Tokyo University of Agriculture, Tokyo, Japan
	8) Working Language	English
	9) Application Period	February 29 - March 29, 2013
	10) Eligible Countries	Australia, Bangladesh, China, Indonesia, Kazakhstan, Korea, Malaysia, Mongolia, the Philippines, Sri Lanka, Thaland, Vietnam
	11) Eligible Applicant	*Master's degree or bachelor's degree in science and technology *Experience on experiments for microbiology, plant nutrition, etc.
	12) Capacity	About 20 researchers will be accepted in whole NREP
	13) Host Organization	Nuclear Safety Research Association (NSRA), Japan
	14) Host Country	Japan
	15) Sponsorship	*Transportation (airticket, travel expenses between arival airport and the host organization in Japan) *Daily allowance *Accommodation
	16) Source of funds	Ministry of Education, Culture, Sports, Science and Technology (MEXT), Japan
	17) How to Apply	Please see; http://www.nsra.or.jp/int/iard/exchange.html
	18) Inquiries	Nuclear Safety Research Association (NSRA) International Affairs & Research Department Address: 5-18-7, Minato-ku, Shimbashi, Tokyo, JAPAN 1050004 Tel: +81-3-5470-1983 Fax: +81-3-5470-1991 http://www.nsra.or.jp/int/iard/exchange.html

No.	Question	Answer
2	**1) Program title**	MEXT Nuclear Research Exchange Program (NREP) 2013 FNCA Research Course "Electron Accelerator Application"
	2) Field	A. Radioactive Waste Management
		B-1. Radiation/RI Application for Industry
		■ B-2. Radiation/RI Application for Environment
		B-3. Radiation/RI Application for Health Care
		B-4. Radiation/RI Application for Neutron Application
		B-5. Radiation/RI Other than the Above
		C. Research Reactor
		D. Nuclear Power Reactor
		E-1. Nuclear Safety
		E-2. Radiation Safety
		F. Policy/Planning/Administration
		G. Others
	3) Outline of the Program	Research on synthesis of plant growth promoter derived from oligosaccharide using the radiolysis technique and super water-absorbent polysaccharide hydrogels by radiation crosslinking, and their agricultural applications.
	4) Method of the Program	Cooperative research (Detail will be finalized after personnel selection)
	5) Schedule of the Program	Negotiable
	6) Duration	7 months
	7) Venue	Environmental Radiation Processing Group, Japan Atomic Energy Angency (JAEA), Takasaki, Gunma Pref., Japan
	8) Working Language	English
	9) Application Period	February 29 - March 29, 2013
	10) Eligible Countries	Australia, Bangladesh, China, Indonesia, Kazakhstan, Korea, Malaysia, Mongolia, the Philippines, Sri Lanka, Thaland, Vietnam
	11) Eligible Applicant	*Master's degree or bachelor's degree in science and technology *Engaged in radiation control
	12) Capacity	About 20 researchers will be accepted in whole NREP
	13) Host Organization	Nuclear Safety Research Association (NSRA), Japan
	14) Host Country	Japan
	15) Sponsorship	*Transportation (airticket, travel expenses between arival airport and the host organization in Japan) *Daily allowance *Accommodation
	16) Source of funds	Ministry of Education, Culture, Sports, Science and Technology (MEXT), Japan
	17) How to Apply	Please see; http://www.nsra.or.jp/int/iard/exchange.html
	18) Inquiries	Nuclear Safety Research Association (NSRA) International Affairs & Research Department Address: 5-18-7, Minato-ku, Shimbashi, Tokyo, JAPAN 1050004 Tel: +81-3-5470-1983 Fax: +81-3-5470-1991 http://www.nsra.or.jp/int/iard/exchange.html

No.	Question	Answer	
3	**1) Program title**	MEXT Nuclear Research Exchange Program (NREP) 2013 FNCA Research Course "Neutron Activation Analysis"	
	2) Field		A. Radioactive Waste Management
			B-1. Radiation/RI Application for Industry
			B-2. Radiation/RI Application for Environment
			B-3. Radiation/RI Application for Health Care
		■	B-4. Radiation/RI Application for Neutron Application
			B-5. Radiation/RI Other than the Above
			C. Research Reactor
			D. Nuclear Power Reactor
			E-1. Nuclear Safety
			E-2. Radiation Safety
			F. Policy/Planning/Administration
			G. Others
	3) Outline of the Program	Neutron Activation Analysis (NAA) of geochemical and environmental samples	
	4) Method of the Program	Cooperative research (Detail will be finalized after personnel selection)	
	5) Schedule of the Program	Negotiable	
	6) Duration	3~7 months	
	7) Venue	Graduate School of Science and Engineering, Tokyo Metropolitan University, Tokyo, Japan	
	8) Working Language	English	
	9) Application Period	February 29 - March 29, 2013	
	10) Eligible Countries	Australia, Bangladesh, China, Indonesia, Kazakhstan, Korea, Malaysia, Mongolia, the Philippines, Sri Lanka, Thaland, Vietnam	
	11) Eligible Applicant	*With a minimum of bachelor's degree in science and engineering *Experience on research or work using radionuclides	
	12) Capacity	About 20 researchers will be accepted in whole NREP	
	13) Host Organization	Nulcear Safety Research Association (NSRA), Japan	
	14) Host Country	Japan	
	15) Sponsorship	*Transportation (airticket, travel expenses between arival airport and the host organization in Japan) *Daily allowance *Accommodation	
	16) Source of funds	Ministry of Education, Culture, Sports, Science and Technology (MEXT), Japan	
	17) How to Apply	Please see; http://www.nsra.or.jp/int/iard/exchange.html	
	18) Inquiries	Nuclear Safety Research Association (NSRA) International Affairs & Research Department Address: 5-18-7, Minato-ku, Shimbashi, Tokyo, JAPAN 1050004 Tel: +81-3-5470-1983 Fax: +81-3-5470-1991 http://www.nsra.or.jp/int/iard/exchange.html	

No.	Question	Answer
4	**1) Program title**	MEXT Nuclear Research Exchange Program (NREP) 2013 Individual Research Subject Course "Selective decontamination and safety treatment of cesium and strontium using selective inorganic adsorbents"
	2) Field	■ A. Radioactive Waste Management
		B-1. Radiation/RI Application for Industry
		B-2. Radiation/RI Application for Environment
		B-3. Radiation/RI Application for Health Care
		B-4. Radiation/RI Application for Neutron Application
		B-5. Radiation/RI Other than the Above
		C. Research Reactor
		D. Nuclear Power Reactor
		E-1. Nuclear Safety
		E-2. Radiation Safety
		F. Policy/Planning/Administration
		G. Others
	3) Outline of the Program	This research theme focuses on decontamination and treatment of cesium and strontium out of radioactively contaminated water. Selective separation methods will be developed by using highly functional selective inorganic absorbents.
	4) Method of the Program	Cooperative research (Detail will be finalized after personnel selection)
	5) Schedule of the Program	Negotiable
	6) Duration	7 months
	7) Venue	Graduate School of Engineering, Department of Quantum Science and Energy Engineering, Tohoku University, Sendai, Miyagi Pref., Japan
	8) Working Language	English
	9) Application Period	February 29 - March 29, 2013
	10) Eligible Countries	Australia, Bangladesh, China, Indonesia, Kazakhstan, Korea, Malaysia, Mongolia, the Philippines, Sri Lanka, Thaland, Vietnam
	11) Eligible Applicant	Engaged in chemistry and material science, chemical analysis
	12) Capacity	About 20 researchers will be accepted in whole NREP
	13) Host Organization	Nuclear Safety Research Association (NSRA), Japan
	14) Host Country	Japan
	15) Sponsorship	*Transportation (airticket, travel expenses between arival airport and the host organization in Japan) *Daily allowance *Accommodation
	16) Source of funds	Ministry of Education, Culture, Sports, Science and Technology (MEXT), Japan
	17) How to Apply	Please see; http://www.nsra.or.jp/int/iard/exchange.html
	18) Inquiries	Nuclear Safety Research Association (NSRA) International Affairs & Research Department Address: 5-18-7, Minato-ku, Shimbashi, Tokyo, JAPAN 1050004 Tel: +81-3-5470-1983 Fax: +81-3-5470-1991 http://www.nsra.or.jp/int/iard/exchange.html

No.	Question	Answer
5	**1) Program title**	MEXT Nuclear Research Exchange Program (NREP) 2013 Individual Research Subject Course "Study on sorption and diffusion of heavy metals or radioactive materials on clay mineral used for nuclear waste managements"
	2) Field	■ A. Radioactive Waste Management
		B-1. Radiation/RI Application for Industry
		B-2. Radiation/RI Application for Environment
		B-3. Radiation/RI Application for Health Care
		B-4. Radiation/RI Application for Neutron Application
		B-5. Radiation/RI Other than the Above
		C. Research Reactor
		D. Nuclear Power Reactor
		E-1. Nuclear Safety
		E-2. Radiation Safety
		F. Policy/Planning/Administration
		G. Others
	3) Outline of the Program	Bentonite, of which major mineral is montmorillonite, is well-known clay material suitable for buffer-barrier in a landfill or a nuclear waste repository, due to its low-permeability, high-expandability, and high sorption ability for heavy metals or radioisotopes. However, sorption and diffusion behaviors of contaminants in the clay have not been fully understood. In this research, mechanism of the behavior will be studied through the experiments using radiotracers or analytical apparatus such as ICP-AES.
	4) Method of the Program	Cooperative research (Detail will be finalized after personnel selection)
	5) Schedule of the Program	Negotiable
	6) Duration	7 months
	7) Venue	Hokkaido University, Graduate School of Engineering, Division of Energy and Environmental Systems, Laboratory of Nuclear and Environmental Materials, Sapporo, Hokkaido Pref., Japan
	8) Working Language	English
	9) Application Period	February 29 - March 29, 2013
	10) Eligible Countries	Australia, Bangladesh, China, Indonesia, Kazakhstan, Korea, Malaysia, Mongolia, the Philippines, Sri Lanka, Thaland, Vietnam
	11) Eligible Applicant	*Bachelor's degree in science and technology *Knowledge of radiation
	12) Capacity	About 20 researchers will be accepted in whole NREP
	13) Host Organization	Nuclear Safety Research Association (NSRA), Japan
	14) Host Country	Japan
	15) Sponsorship	*Transportation (airticket, travel expenses between arival airport and the host organization in Japan) *Daily allowance *Accommodation
	16) Source of funds	Ministry of Education, Culture, Sports, Science and Technology (MEXT), Japan
	17) How to Apply	Please see; http://www.nsra.or.jp/int/iard/exchange.html
	18) Inquiries	Nuclear Safety Research Association (NSRA) International Affairs & Research Department Address: 5-18-7, Minato-ku, Shimbashi, Tokyo, JAPAN 1050004 Tel: +81-3-5470-1983 Fax: +81-3-5470-1991 http://www.nsra.or.jp/int/iard/exchange.html

No.	Question	Answer
6	**1) Program title**	MEXT Nuclear Research Exchange Program (NREP) 2013 Individual Research Subject Course "Diffusion experiment in compacted bentonite for geological disposal of radioactive waste"
	2) Field	■ A. Radioactive Waste Management
		B-1. Radiation/RI Application for Industry
		B-2. Radiation/RI Application for Environment
		B-3. Radiation/RI Application for Health Care
		B-4. Radiation/RI Application for Neutron Application
		B-5. Radiation/RI Other than the Above
		C. Research Reactor
		D. Nuclear Power Reactor
		E-1. Nuclear Safety
		E-2. Radiation Safety
		F. Policy/Planning/Administration
		G. Others
	3) Outline of the Program	For safety disposal of radioactive waste, it is important to study migration behaviour of ions in engineered barriers. Here experimental studies are planed to understand diffusion and dispersion of ions in bentonite clay.
	4) Method of the Program	Cooperative research (Detail will be finalized after personnel selection)
	5) Schedule of the Program	Negotiable
	6) Duration	7 months
	7) Venue	Graduate School of Engineering, Department of Applied Quantum Physics and Nuclear Engineering, Kyushu University, Fukuoka Pref., Japan
	8) Working Language	English
	9) Application Period	February 29 - March 29, 2013
	10) Eligible Countries	Australia, Bangladesh, China, Indonesia, Kazakhstan, Korea, Malaysia, Mongolia, the Philippines, Sri Lanka, Thaland, Vietnam
	11) Eligible Applicant	Master's degree in science and technology
	12) Capacity	About 20 researchers will be accepted in whole NREP
	13) Host Organization	Nuclear Safety Research Association (NSRA), Japan
	14) Host Country	Japan
	15) Sponsorship	*Transportation (airticket, travel expenses between arival airport and the host organization in Japan) *Daily allowance *Accommodation
	16) Source of funds	Ministry of Education, Culture, Sports, Science and Technology (MEXT), Japan
	17) How to Apply	Please see; http://www.nsra.or.jp/int/iard/exchange.html
	18) Inquiries	Nuclear Safety Research Association (NSRA) International Affairs & Research Department Address: 5-18-7, Minato-ku, Shimbashi, Tokyo, JAPAN 1050004 Tel: +81-3-5470-1983 Fax: +81-3-5470-1991 http://www.nsra.or.jp/int/iard/exchange.html

No.	Question	Answer
7	**1) Program title**	MEXT Nuclear Research Exchange Program (NREP) 2013 Individual Research Subject Course "Solidification of cesium and strontium for the safety treatment and disposal"
	2) Field	■ A. Radioactive Waste Management
		B-1. Radiation/RI Application for Industry
		B-2. Radiation/RI Application for Environment
		B-3. Radiation/RI Application for Health Care
		B-4. Radiation/RI Application for Neutron Application
		B-5. Radiation/RI Other than the Above
		C. Research Reactor
		D. Nuclear Power Reactor
		E-1. Nuclear Safety
		E-2. Radiation Safety
		F. Policy/Planning/Administration
		G. Others
	3) Outline of the Program	Stable solidification of cesium and strontium is very important issues for the safety treatment and disposal for the radwaste from NPP accidents. By using selective adsorbents, stable solidification methods are developed in this research.
	4) Method of the Program	Cooperative research (Detail will be finalized after personnel selection)
	5) Schedule of the Program	Negotiable
	6) Duration	7 months
	7) Venue	Graduate School of Engineering, Department of Quantum Science and Energy Engineering, Tohoku University, Sendai, Miyagi Pref., Japan
	8) Working Language	English
	9) Application Period	February 29 - March 29, 2013
	10) Eligible Countries	Australia, Bangladesh, China, Indonesia, Kazakhstan, Korea, Malaysia, Mongolia, the Philippines, Sri Lanka, Thaland, Vietnam
	11) Eligible Applicant	Engaged in material science and chemistry, instrumental analysis (XRD, IR, EPMA)
	12) Capacity	About 20 researchers will be accepted in whole NREP
	13) Host Organization	Nuclear Safety Research Association (NSRA), Japan
	14) Host Country	Japan
	15) Sponsorship	*Transportation (airticket, travel expenses between arival airport and the host organization in Japan) *Daily allowance *Accommodation
	16) Source of funds	Ministry of Education, Culture, Sports, Science and Technology (MEXT), Japan
	17) How to Apply	Please see; http://www.nsra.or.jp/int/iard/exchange.html
	18) Inquiries	Nuclear Safety Research Association (NSRA) International Affairs & Research Department Address: 5-18-7, Minato-ku, Shimbashi, Tokyo, JAPAN 1050004 Tel: +81-3-5470-1983 Fax: +81-3-5470-1991 http://www.nsra.or.jp/int/iard/exchange.html

No.	Question	Answer
8	**1) Program title**	MEXT Nuclear Research Exchange Program (NREP) 2013 Individual Research Subject Course "Environmental radiation monitoring around nuclear facilities"
	2) Field	A. Radioactive Waste Management
		B-1. Radiation/RI Application for Industry
		B-2. Radiation/RI Application for Environment
		B-3. Radiation/RI Application for Health Care
		B-4. Radiation/RI Application for Neutron Application
		B-5. Radiation/RI Other than the Above
		C. Research Reactor
		D. Nuclear Power Reactor
		E-1. Nuclear Safety
		■ E-2. Radiation Safety
		F. Policy/Planning/Administration
		G. Others
	3) Outline of the Program	Related with environmental radiation monitoring around nuclear facilities; -Environmental radiation measurement (periodical or emergency) -Test and calibration of radiation monitor
	4) Method of the Program	Cooperative research (Detail will be finalized after personnel selection)
	5) Schedule of the Program	Negotiable
	6) Duration	3 months
	7) Venue	Health and Safety Department, O-arai Research and Development Center, Japan Atomic Energy Agency (JAEA), Oarai, Ibaraki Pref., Japan
	8) Working Language	English
	9) Application Period	February 29 - March 29, 2013
	10) Eligible Countries	Australia, Bangladesh, China, Indonesia, Kazakhstan, Korea, Malaysia, Mongolia, the Philippines, Sri Lanka, Thaland, Vietnam
	11) Eligible Applicant	*Master's degree or bachelor's degree in science and technology *Engaged in radiation control
	12) Capacity	About 20 researchers will be accepted in whole NREP
	13) Host Organization	Nuclear Safety Research Association (NSRA), Japan
	14) Host Country	Japan
	15) Sponsorship	*Transportation (airticket, travel expenses between arival airport and the host organization in Japan) *Daily allowance *Accommodation
	16) Source of funds	Ministry of Education, Culture, Sports, Science and Technology (MEXT), Japan
	17) How to Apply	Please see; http://www.nsra.or.jp/int/iard/exchange.html
	18) Inquiries	Nuclear Safety Research Association (NSRA) International Affairs & Research Department Address: 5-18-7, Minato-ku, Shimbashi, Tokyo, JAPAN 1050004 Tel: +81-3-5470-1983 Fax: +81-3-5470-1991 http://www.nsra.or.jp/int/iard/exchange.html

No.	Question	Answer
9	**1) Program title**	MEXT Nuclear Research Exchange Program (NREP) 2013 Individual Research Subject Course "Management of radioactive waste from radioisotope users"
	2) Field	■ A. Radioactive Waste Management
		B-1. Radiation/RI Application for Industry
		B-2. Radiation/RI Application for Environment
		B-3. Radiation/RI Application for Health Care
		B-4. Radiation/RI Application for Neutron Application
		B-5. Radiation/RI Other than the Above
		C. Research Reactor
		D. Nuclear Power Reactor
		E-1. Nuclear Safety
		E-2. Radiation Safety
		F. Policy/Planning/Administration
		G. Others
	3) Outline of the Program	Training about collection, storage and treatment of radioactive waste from radioisotope users
	4) Method of the Program	Cooperative research (Detail will be finalized after personnel selection)
	5) Schedule of the Program	Negotiable
	6) Duration	1~2 month(s)
	7) Venue	Division of radioactive waste management, Japan Radioisotope Association (JRIA), Tokyo, Japan
	8) Working Language	English
	9) Application Period	February 29 - March 29, 2013
	10) Eligible Countries	Australia, Bangladesh, China, Indonesia, Kazakhstan, Korea, Malaysia, Mongolia, the Philippines, Sri Lanka, Thaland, Vietnam
	11) Eligible Applicant	
	12) Capacity	About 20 researchers will be accepted in whole NREP
	13) Host Organization	Nuclear Safety Research Association (NSRA), Japan
	14) Host Country	Japan
	15) Sponsorship	*Transportation (airticket, travel expenses between arival airport and the host organization in Japan) *Daily allowance *Accommodation
	16) Source of funds	Ministry of Education, Culture, Sports, Science and Technology (MEXT), Japan
	17) How to Apply	Please see; http://www.nsra.or.jp/int/iard/exchange.html
	18) Inquiries	Nuclear Safety Research Association (NSRA) International Affairs & Research Department Address: 5-18-7, Minato-ku, Shimbashi, Tokyo, JAPAN 1050004 Tel: +81-3-5470-1983 Fax: +81-3-5470-1991 http://www.nsra.or.jp/int/iard/exchange.html

No.	Question	Answer	
10	**1) Program title**	MEXT Nuclear Research Exchange Program (NREP) 2013 Individual Research Subject Course "DNA damage and cellular response induced by charged particle irradiation of different LET"	
	2) Field		A. Radioactive Waste Management
			B-1. Radiation/RI Application for Industry
			B-2. Radiation/RI Application for Environment
		■	B-3. Radiation/RI Application for Health Care
			B-4. Radiation/RI Application for Neutron Application
			B-5. Radiation/RI Other than the Above
			C. Research Reactor
			D. Nuclear Power Reactor
			E-1. Nuclear Safety
			E-2. Radiation Safety
			F. Policy/Planning/Administration
			G. Others
	3) Outline of the Program	Complexity of DNA damage induced by charged particle irradiaton depend on the physical characteristics, such as LET and ion track structure of the ion species. One of the major reason for the advantage of charged particle cancer therapy from others is the induction of irreparable DNA damage in cells. However, the further studies are necessary to clarify the correlation between the physical parameter and the complexity of induced DNA damage as well as the cellular responses. Correlation between the LET/dose/ion species and DNA damage complexity will be studied using Heavy Ion Medical Accelerator in Chiba (HIMAC) and also Single Particle Irradiation System to Cell (SPICE).	
	4) Method of the Program	Cooperative research (Detail will be finalized after personnel selection)	
	5) Schedule of the Program	Negotiable	
	6) Duration	7 months	
	7) Venue	National Institute of Radiological Sciences (NIRS), Inage, Chiba Pref., Japan	
	8) Working Language	English	
	9) Application Period	February 29 - March 29, 2013	
	10) Eligible Countries	Australia, Bangladesh, China, Indonesia, Kazakhstan, Korea, Malaysia, Mongolia, the Philippines, Sri Lanka, Thaland, Vietnam	
	11) Eligible Applicant	Ph., D candidate or researcher with Ph. D	
	12) Capacity	About 20 researchers will be accepted in whole NREP	
	13) Host Organization	Nuclear Safety Research Association (NSRA), Japan	
	14) Host Country	Japan	
	15) Sponsorship	*Transportation (airticket, travel expenses between arival airport and the host organization in Japan) *Daily allowance *Accommodation	
	16) Source of funds	Ministry of Education, Culture, Sports, Science and Technology (MEXT), Japan	
	17) How to Apply	Please see; http://www.nsra.or.jp/int/iard/exchange.html	
	18) Inquiries	Nuclear Safety Research Association (NSRA) International Affairs & Research Department Address: 5-18-7, Minato-ku, Shimbashi, Tokyo, JAPAN 1050004 Tel: +81-3-5470-1983 Fax: +81-3-5470-1991 http://www.nsra.or.jp/int/iard/exchange.html	

No.	Question	Answer
11	**1) Program title**	MEXT Nuclear Research Exchange Program (NREP) 2013 Individual Research Subject Course "Micro or nano hardness dependence of stainless steel on ion irradiation condition"
	2) Field	☐ A. Radioactive Waste Management ■ B-1. Radiation/RI Application for Industry ☐ B-2. Radiation/RI Application for Environment ☐ B-3. Radiation/RI Application for Health Care ☐ B-4. Radiation/RI Application for Neutron Application ☐ B-5. Radiation/RI Other than the Above ☐ C. Research Reactor ☐ D. Nuclear Power Reactor ☐ E-1. Nuclear Safety ☐ E-2. Radiation Safety ☐ F. Policy/Planning/Administration ☐ G. Others
	3) Outline of the Program	Effects of erradiation conditions such as incident angles, incident energy, fluences and temperatures on micro or nano hardness of stainless steel irradiated with ion will be investigated.
	4) Method of the Program	Cooperative research (Detail will be finalized after personnel selection)
	5) Schedule of the Program	Negotiable
	6) Duration	4 months
	7) Venue	Energy Material Group, The Wakasa Wan Energy Research Center, Tsuruga, Fukui Pref., Japan
	8) Working Language	English
	9) Application Period	February 29 - March 29, 2013
	10) Eligible Countries	Australia, Bangladesh, China, Indonesia, Kazakhstan, Korea, Malaysia, Mongolia, the Philippines, Sri Lanka, Thaland, Vietnam
	11) Eligible Applicant	*Master's degree or bachelor's degree in material engineering *Ability in sample handling and experimental equipment *Basic knowledge of crystal structure, radiation and vacuum
	12) Capacity	About 20 researchers will be accepted in whole NREP
	13) Host Organization	Nuclear Safety Research Association (NSRA), Japan
	14) Host Country	Japan
	15) Sponsorship	*Transportation (airticket, travel expenses between arival airport and the host organization in Japan) *Daily allowance *Accommodation
	16) Source of funds	Ministry of Education, Culture, Sports, Science and Technology (MEXT), Japan
	17) How to Apply	Please see; http://www.nsra.or.jp/int/iard/exchange.html
	18) Inquiries	Nuclear Safety Research Association (NSRA) International Affairs & Research Department Address: 5-18-7, Minato-ku, Shimbashi, Tokyo, JAPAN 1050004 Tel: +81-3-5470-1983 Fax: +81-3-5470-1991 http://www.nsra.or.jp/int/iard/exchange.html

No.	Question	Answer
12	**1) Program title**	MEXT Nuclear Research Exchange Program (NREP) 2013 Individual Research Subject Course "Development of data acquisition syystem and construction of signal processing for ion beam analysis"
	2) Field	☐ A. Radioactive Waste Management ☐ B-1. Radiation/RI Application for Industry ☐ B-2. Radiation/RI Application for Environment ☐ B-3. Radiation/RI Application for Health Care ☐ B-4. Radiation/RI Application for Neutron Application ■ B-5. Radiation/RI Other than the Above ☐ C. Research Reactor ☐ D. Nuclear Power Reactor ☐ E-1. Nuclear Safety ☐ E-2. Radiation Safety ☐ F. Policy/Planning/Administration ☐ G. Others
	3) Outline of the Program	Development of data acquisition system and construction of singnal processing for measurement system of flight time of charged particle
	4) Method of the Program	Cooperative research (Detail will be finalized after personnel selection)
	5) Schedule of the Program	Negotiable
	6) Duration	6 months
	7) Venue	Energy Material Group, The Wakasa Wan Energy Research Center, Tsuruga, Fukui Pref., Japan
	8) Working Language	English
	9) Application Period	February 29 - March 29, 2013
	10) Eligible Countries	Australia, Bangladesh, China, Indonesia, Kazakhstan, Korea, Malaysia, Mongolia, the Philippines, Sri Lanka, Thaland, Vietnam
	11) Eligible Applicant	*Master's degree or bachelor's degree in science and technology *Experience on radiation measurement *Experience on computer programming
	12) Capacity	About 20 researchers will be accepted in whole NREP
	13) Host Organization	Nuclear Safety Research Association (NSRA), Japan
	14) Host Country	Japan
	15) Sponsorship	*Transportation (airticket, travel expenses between arival airport and the host organization in Japan) *Daily allowance *Accommodation
	16) Source of funds	Ministry of Education, Culture, Sports, Science and Technology (MEXT), Japan
	17) How to Apply	Please see; http://www.nsra.or.jp/int/iard/exchange.html
	18) Inquiries	Nuclear Safety Research Association (NSRA) International Affairs & Research Department Address: 5-18-7, Minato-ku, Shimbashi, Tokyo, JAPAN 1050004 Tel: +81-3-5470-1983 Fax: +81-3-5470-1991 http://www.nsra.or.jp/int/iard/exchange.html

No.	Question	Answer
13	**1) Program title**	MEXT Nuclear Research Exchange Program (NREP) 2013 Individual Research Subject Course "Development of movie prediction method for image guided radiation therapy"
	2) Field	☐ A. Radioactive Waste Management ☐ B-1. Radiation/RI Application for Industry ☐ B-2. Radiation/RI Application for Environment ■ B-3. Radiation/RI Application for Health Care ☐ B-4. Radiation/RI Application for Neutron Application ☐ B-5. Radiation/RI Other than the Above ☐ C. Research Reactor ☐ D. Nuclear Power Reactor ☐ E-1. Nuclear Safety ☐ E-2. Radiation Safety ☐ F. Policy/Planning/Administration ☐ G. Others
	3) Outline of the Program	The purpose of this research is the prediction of future motion images to consider the deformation of the tumor for the radiation therapy. Prediction is based on two principal methods known as principal component analysis (PCA) and Multi-channel singular spectral analysis (MSSA). Implementation of this prediction method believed to be significant in the field of image guided radiation therapy.
	4) Method of the Program	Cooperative research (Detail will be finalized after personnel selection)
	5) Schedule of the Program	Negotiable
	6) Duration	6 months
	7) Venue	School of Engineering, Nuclear Professional School, The University of Tokyo, Tokyo, Japan
	8) Working Language	English
	9) Application Period	February 29 - March 29, 2013
	10) Eligible Countries	Australia, Bangladesh, China, Indonesia, Kazakhstan, Korea, Malaysia, Mongolia, the Philippines, Sri Lanka, Thaland, Vietnam
	11) Eligible Applicant	A degree from a graduate school of science and engineering department
	12) Capacity	About 20 researchers will be accepted in whole NREP
	13) Host Organization	Nuclear Safety Research Association (NSRA), Japan
	14) Host Country	Japan
	15) Sponsorship	*Transportation (airticket, travel expenses between arival airport and the host organization in Japan) *Daily allowance *Accommodation
	16) Source of funds	Ministry of Education, Culture, Sports, Science and Technology (MEXT), Japan
	17) How to Apply	Please see; http://www.nsra.or.jp/int/iard/exchange.html
	18) Inquiries	Nuclear Safety Research Association (NSRA) International Affairs & Research Department Address: 5-18-7, Minato-ku, Shimbashi, Tokyo, JAPAN 1050004 Tel: +81-3-5470-1983 Fax: +81-3-5470-1991 http://www.nsra.or.jp/int/iard/exchange.html

No.	Question	Answer
14	**1) Program title**	MEXT Nuclear Research Exchange Program (NREP) 2013 Individual Research Subject Course "R&D for graft polymerization onto natural polymers"
	2) Field	☐ A. Radioactive Waste Management ■ B-1. Radiation/RI Application for Industry ■ B-2. Radiation/RI Application for Environment ☐ B-3. Radiation/RI Application for Health Care ☐ B-4. Radiation/RI Application for Neutron Application ☐ B-5. Radiation/RI Other than the Above ☐ C. Research Reactor ☐ D. Nuclear Power Reactor ☐ E-1. Nuclear Safety ☐ E-2. Radiation Safety ☐ F. Policy/Planning/Administration ☐ G. Others
	3) Outline of the Program	Research on radiation induced graft polymerization onto natural polymers and analysis of relationship between grafting conditions and grafted chains detached from trunk polymers.
	4) Method of the Program	Cooperative research (Detail will be finalized after personnel selection)
	5) Schedule of the Program	Negotiable
	6) Duration	7 months
	7) Venue	Environmental Polymer Group, Takasaki Advanced Radiation Resaerch Institute, Japan Atomic Energy Agency (JAEA), Takasaki, Gunma Pref., Japan
	8) Working Language	English
	9) Application Period	February 29 - March 29, 2013
	10) Eligible Countries	Australia, Bangladesh, China, Indonesia, Kazakhstan, Korea, Malaysia, Mongolia, the Philippines, Sri Lanka, Thaland, Vietnam
	11) Eligible Applicant	*Master's degree or bachelor's degree in science and technology *Engaged in radiation control
	12) Capacity	About 20 researchers will be accepted in whole NREP
	13) Host Organization	Nuclear Safety Research Association, (NSRA), Japan
	14) Host Country	Japan
	15) Sponsorship	*Transportation (airticket, travel expenses between arival airport and the host organization in Japan) *Daily allowance *Accommodation
	16) Source of funds	Ministry of Education, Culture, Sports, Science and Technology (MEXT), Japan
	17) How to Apply	Please see; http://www.nsra.or.jp/int/iard/exchange.html
	18) Inquiries	Nuclear Safety Research Association (NSRA) International Affairs & Research Department Address: 5-18-7, Minato-ku, Shimbashi, Tokyo, JAPAN 1050004 Tel: +81-3-5470-1983 Fax: +81-3-5470-1991 http://www.nsra.or.jp/int/iard/exchange.html

No.	Question	Answer
15	**1) Program title**	MEXT Nuclear Research Exchange Program (NREP) 2013 Individual Research Subject Course "Development of functional hydrogels and polymers fabricated by gamma-ray irradiation"
	2) Field	☐ A. Radioactive Waste Management ☐ B-1. Radiation/RI Application for Industry ■ B-2. Radiation/RI Application for Environment ☐ B-3. Radiation/RI Application for Health Care ☐ B-4. Radiation/RI Application for Neutron Application ☐ B-5. Radiation/RI Other than the Above ☐ C. Research Reactor ☐ D. Nuclear Power Reactor ☐ E-1. Nuclear Safety ☐ E-2. Radiation Safety ☐ F. Policy/Planning/Administration ☐ G. Others
	3) Outline of the Program	Development of functional hydrogels and polymers, usable for the environmental purification and/or the resource recycle, by utilizing the gamma-radiation induced polymerization
	4) Method of the Program	Cooperative research (Detail will be finalized after personnel selection)
	5) Schedule of the Program	Negotiable
	6) Duration	6 months
	7) Venue	Graduate School of Engineering, Department of Applied Quantum Physics and Nuclear Engineering, Kyushu University, Fukuoka Pref., Japan
	8) Working Language	English
	9) Application Period	February 29 - March 29, 2013
	10) Eligible Countries	Australia, Bangladesh, China, Indonesia, Kazakhstan, Korea, Malaysia, Mongolia, the Philippines, Sri Lanka, Thaland, Vietnam
	11) Eligible Applicant	*Master's degree in science and technology
	12) Capacity	About 20 researchers will be accepted in whole NREP
	13) Host Organization	Nuclear Safety Research Association (NSRA), Japan
	14) Host Country	Japan
	15) Sponsorship	*Transportation (airticket, travel expenses between arival airport and the host organization in Japan) *Daily allowance *Accommodation
	16) Source of funds	Ministry of Education, Culture, Sports, Science and Technology (MEXT), Japan
	17) How to Apply	Please see; http://www.nsra.or.jp/int/iard/exchange.html
	18) Inquiries	Nuclear Safety Research Association (NSRA) International Affairs & Research Department Address: 5-18-7, Minato-ku, Shimbashi, Tokyo, JAPAN 1050004 Tel: +81-3-5470-1983 Fax: +81-3-5470-1991 http://www.nsra.or.jp/int/iard/exchange.html

No.	Question	Answer
16	**1) Program title**	MEXT Nuclear Research Exchange Program (NREP) 2013 Individual Research Subject Course "Development of high selectivity absorbents by radiation grafting"
	2) Field	☐ A. Radioactive Waste Management
		■ B-1. Radiation/RI Application for Industry
		■ B-2. Radiation/RI Application for Environment
		☐ B-3. Radiation/RI Application for Health Care
		☐ B-4. Radiation/RI Application for Neutron Application
		☐ B-5. Radiation/RI Other than the Above
		☐ C. Research Reactor
		☐ D. Nuclear Power Reactor
		☐ E-1. Nuclear Safety
		☐ E-2. Radiation Safety
		☐ F. Policy/Planning/Administration
		☐ G. Others
	3) Outline of the Program	Development of new absorbent selective for poisonous or useful metals dissolved in water, by using electron beam or gamma ray.
	4) Method of the Program	Cooperative research (Detail will be finalized after personnel selection)
	5) Schedule of the Program	Negotiable
	6) Duration	7 months
	7) Venue	Environmental Polymer Group, Takasaki Advanced Radiation Resaerch Institute, Japan Atomic Energy Agency (JAEA), Takasaki, Gunma Pref., Japan
	8) Working Language	English
	9) Application Period	February 29 - March 29, 2013
	10) Eligible Countries	Australia, Bangladesh, China, Indonesia, Kazakhstan, Korea, Malaysia, Mongolia, the Philippines, Sri Lanka, Thaland, Vietnam
	11) Eligible Applicant	*Master's degree or bachelor's degreen in science and technology *Engaged in radiation control
	12) Capacity	About 20 researchers will be accepted in whole NREP
	13) Host Organization	Nuclear Safety Research Association (NSRA), Japan
	14) Host Country	Japan
	15) Sponsorship	*Transportation (airticket, travel expenses between arival airport and the host organization in Japan) *Daily allowance *Accommodation
	16) Source of funds	Ministry of Education, Culture, Sports, Science and Technology (MEXT), Japan
	17) How to Apply	Please see; http://www.nsra.or.jp/int/iard/exchange.html
	18) Inquiries	Nuclear Safety Research Association (NSRA) International Affairs & Research Department Address: 5-18-7, Minato-ku, Shimbashi, Tokyo, JAPAN 1050004 Tel: +81-3-5470-1983 Fax: +81-3-5470-1991 http://www.nsra.or.jp/int/iard/exchange.html

No.	Question	Answer
17	**1) Program title**	MEXT Nuclear Research Exchange Program (NREP) 2013 Individual Research Subject Course "R&D of radiation processing for biogradable polymeric materials"
	2) Field	A. Radioactive Waste Management
		■ B-1. Radiation/RI Application for Industry
		■ B-2. Radiation/RI Application for Environment
		B-3. Radiation/RI Application for Health Care
		B-4. Radiation/RI Application for Neutron Application
		B-5. Radiation/RI Other than the Above
		C. Research Reactor
		D. Nuclear Power Reactor
		E-1. Nuclear Safety
		E-2. Radiation Safety
		F. Policy/Planning/Administration
		G. Others
	3) Outline of the Program	Research on improvement of thermal and mechanical properties and so on for environment-friendly polymeric materials such as bioplastics, poysaccharides etc., by using radiation processing technique and their application
	4) Method of the Program	Cooperative research (Detail will be finalized after personnel selection)
	5) Schedule of the Program	Negotiable
	6) Duration	7 months
	7) Venue	Environmental Radiation Processing Group, Takasaki Advanced Radiation Resaerch Institute, Japan Atomic Energy Angency (JAEA), Takasaki, Gunma Pref., Japan
	8) Working Language	
	9) Application Period	English
	10) Eligible Countries	Australia, Bangladesh, China, Indonesia, Kazakhstan, Korea, Malaysia, Mongolia, the Philippines, Sri Lanka, Thaland, Vietnam
	11) Eligible Applicant	*Master's degree or bachelor's degree in science and technology *Engaged in radiation control
	12) Capacity	About 20 researchers will be accepted in whole NREP
	13) Host Organization	Nuclear Safety Research Association (NSRA), Japan
	14) Host Country	Japan
	15) Sponsorship	*Transportation (airticket, travel expenses between arival airport and the host organization in Japan) *Daily allowance *Accommodation
	16) Source of funds	Ministry of Education, Culture, Sports, Science and Technology (MEXT), Japan
	17) How to Apply	Please see; http://www.nsra.or.jp/int/iard/exchange.html
	18) Inquiries	Nuclear Safety Research Association (NSRA) International Affairs & Research Department Address: 5-18-7, Minato-ku, Shimbashi, Tokyo, JAPAN 1050004 Tel: +81-3-5470-1983 Fax: +81-3-5470-1991 http://www.nsra.or.jp/int/iard/exchange.html

No.	Question	Answer	
18	**1) Program title**	MEXT Nuclear Research Exchange Program (NREP) 2013 Individual Research Subject Course "Development of biodegradable hydrogels by radiation crosslinking"	
	2) Field		A. Radioactive Waste Management
		■	B-1. Radiation/RI Application for Industry
		■	B-2. Radiation/RI Application for Environment
			B-3. Radiation/RI Application for Health Care
			B-4. Radiation/RI Application for Neutron Application
			B-5. Radiation/RI Other than the Above
			C. Research Reactor
			D. Nuclear Power Reactor
			E-1. Nuclear Safety
			E-2. Radiation Safety
			F. Policy/Planning/Administration
			G. Others
	3) Outline of the Program	Research on synthesis of water absorbent hydrogels by radiation crosslinking of biodegradable polysaccharides, such as chitosan and cellulose, as well as their application	
	4) Method of the Program	Cooperative research (Detail will be finalized after personnel selection)	
	5) Schedule of the Program	Negotiable	
	6) Duration	7 months	
	7) Venue	Environmental Radiation Processing Group, Takasaki Advanced Radiation Resaerch Institute, Japan Atomic Energy Angency (JAEA), Takasaki, Gunma Pref., Japan	
	8) Working Language	English	
	9) Application Period	February 29 - March 29, 2013	
	10) Eligible Countries	Australia, Bangladesh, China, Indonesia, Kazakhstan, Korea, Malaysia, Mongolia, the Philippines, Sri Lanka, Thaland, Vietnam	
	11) Eligible Applicant	*Master's degree or bachelor's degree in science and technology *Engaged in radiation control	
	12) Capacity	About 20 researchers will be accepted in whole NREP	
	13) Host Organization	Nuclear Safety Research Association (NSRA), Japan	
	14) Host Country	Japan	
	15) Sponsorship	*Transportation (airticket, travel expenses between arival airport and the host organization in Japan) *Daily allowance *Accommodation	
	16) Source of funds	Ministry of Education, Culture, Sports, Science and Technology (MEXT), Japan	
	17) How to Apply	Please see; http://www.nsra.or.jp/int/iard/exchange.html	
	18) Inquiries	Nuclear Safety Research Association (NSRA) International Affairs & Research Department Address: 5-18-7, Minato-ku, Shimbashi, Tokyo, JAPAN 1050004 Tel: +81-3-5470-1983 Fax: +81-3-5470-1991 http://www.nsra.or.jp/int/iard/exchange.html	

No.	Question	Answer
19	**1) Program title**	MEXT Nuclear Research Exchange Program (NREP) 2013 Individual Research Subject Course "Development of high performance polymer membranes using radiation technique"
	2) Field	☐ A. Radioactive Waste Management ■ B-1. Radiation/RI Application for Industry ☐ B-2. Radiation/RI Application for Environment ☐ B-3. Radiation/RI Application for Health Care ☐ B-4. Radiation/RI Application for Neutron Application ☐ B-5. Radiation/RI Other than the Above ☐ C. Research Reactor ☐ D. Nuclear Power Reactor ☐ E-1. Nuclear Safety ☐ E-2. Radiation Safety ☐ F. Policy/Planning/Administration ☐ G. Others
	3) Outline of the Program	Synthesis and characterization of high performance polymer membranes for fuel cell, battery, and separation appliations by radiation induced crosslinking and graft polymerization using electron beams, gamma rays, and swift heavy ion beams. Study on nanostructures, ion and gas conducting mechanism, and degradation behavior of the polymer membranes
	4) Method of the Program	Cooperative research (Detail will be finalized after personnel selection)
	5) Schedule of the Program	Negotiable
	6) Duration	7 months
	7) Venue	High Performance Polymer Group, Takasaki Advanced Radiation Resaerch Institute, Japan Atomic Energy Agency (JAEA), Takasaki, Gunma Pref., Japan
	8) Working Language	English
	9) Application Period	February 29 - March 29, 2013
	10) Eligible Countries	Australia, Bangladesh, China, Indonesia, Kazakhstan, Korea, Malaysia, Mongolia, the Philippines, Sri Lanka, Thaland, Vietnam
	11) Eligible Applicant	Master's degree or bachelor's degree in science and technology
	12) Capacity	About 20 researchers will be accepted in whole NREP
	13) Host Organization	Nuclear Safety Research Association (NSRA), Japan
	14) Host Country	Japan
	15) Sponsorship	*Transportation (airticket, travel expenses between arival airport and the host organization in Japan) *Daily allowance *Accommodation
	16) Source of funds	Ministry of Education, Culture, Sports, Science and Technology (MEXT), Japan
	17) How to Apply	Please see; http://www.nsra.or.jp/int/iard/exchange.html
	18) Inquiries	Nuclear Safety Research Association (NSRA) International Affairs & Research Department Address: 5-18-7, Minato-ku, Shimbashi, Tokyo, JAPAN 1050004 Tel: +81-3-5470-1983 Fax: +81-3-5470-1991 http://www.nsra.or.jp/int/iard/exchange.html

No.	Question	Answer
20	**1) Program title**	MEXT Nuclear Research Exchange Program (NREP) 2013 Individual Research Subject Course "Evaluation of Cs 137 uptake to plants and their fruits accumulated by root-microbe networks developing to take plant nutrients from soils contaminated by Cs 137 at Fukushima region, and R/D to stop such Cs137 cycles"
	2) Field	☐ A. Radioactive Waste Management ☐ B-1. Radiation/RI Application for Industry ☐ B-2. Radiation/RI Application for Environment ☐ B-3. Radiation/RI Application for Health Care ☐ B-4. Radiation/RI Application for Neutron Application ☐ B-5. Radiation/RI Other than the Above ☐ C. Research Reactor ☐ D. Nuclear Power Reactor ☐ E-1. Nuclear Safety ■ E-2. Radiation Safety ☐ F. Policy/Planning/Administration ■ G. Others
	3) Outline of the Program	We had a hypothesis that root-microbe networks developing to take plant nutrients from soils may accelerate to absorb Cs137 in contaminated soils. Therefore, we would confirm this hypothesis in Fukushima region, and if possible, we would develop agricultural technology to decrease accumulation of Cs137 through root microbe networks.
	4) Method of the Program	Cooperative research (Detail will be finalized after personnel selection)
	5) Schedule of the Program	Negotiable
	6) Duration	7 months
	7) Venue	Institute of Agriculture, Tokyo University of Agriculture and Technology, Tokyo, Japan
	8) Working Language	English
	9) Application Period	February 29 - March 29, 2013
	10) Eligible Countries	Australia, Bangladesh, China, Indonesia, Kazakhstan, Korea, Malaysia, Mongolia, the Philippines, Sri Lanka, Thaland, Vietnam
	11) Eligible Applicant	*Master's degree or bachelor's degree in science and technology *Experience on experiments for microbiology, plant nutrition, etc.
	12) Capacity	About 20 researchers will be accepted in whole NREP
	13) Host Organization	Nuclear Safety Research Association (NSRA), Japan
	14) Host Country	Japan
	15) Sponsorship	*Transportation (airticket, travel expenses between arival airport and the host organization in Japan) *Daily allowance *Accommodation
	16) Source of funds	Ministry of Education, Culture, Sports, Science and Technology (MEXT), Japan
	17) How to Apply	Please see; http://www.nsra.or.jp/int/iard/exchange.html
	18) Inquiries	Nuclear Safety Research Association (NSRA) International Affairs & Research Department Address: 5-18-7, Minato-ku, Shimbashi, Tokyo, JAPAN 1050004 Tel: +81-3-5470-1983 Fax: +81-3-5470-1991 http://www.nsra.or.jp/int/iard/exchange.html

No.	Question	Answer
21	**1) Program title**	MEXT Nuclear Research Exchange Program (NREP) 2013 Individual Research Subject Course "Studies on biological effects of DNA damage that is inefficiently repired"
	2) Field	☐ A. Radioactive Waste Management ☐ B-1. Radiation/RI Application for Industry ☐ B-2. Radiation/RI Application for Environment ■ B-3. Radiation/RI Application for Health Care ☐ B-4. Radiation/RI Application for Neutron Application ☐ B-5. Radiation/RI Other than the Above ☐ C. Research Reactor ☐ D. Nuclear Power Reactor ☐ E-1. Nuclear Safety ☐ E-2. Radiation Safety ☐ F. Policy/Planning/Administration ☐ G. Others
	3) Outline of the Program	Studies on the efficiency of repair and the biological consequences of DNA damage using Escherichia coli. 1) Characterization of molecular mechanisms that affect the efficiency of DNA damage repair. 2) Analysis on the relationship between structure of DNA damage and biological consequences.
	4) Method of the Program	Cooperative research (Detail will be finalized after personnel selection)
	5) Schedule of the Program	Negotiable
	6) Duration	7 months
	7) Venue	Irradiated Cell Analysis Research Group, Kansai Photon Science Institute, Japan Atomic Energy Agency (JAEA), Kyoto, Japan
	8) Working Language	English
	9) Application Period	February 29 - March 29, 2013
	10) Eligible Countries	Australia, Bangladesh, China, Indonesia, Kazakhstan, Korea, Malaysia, Mongolia, the Philippines, Sri Lanka, Thaland, Vietnam
	11) Eligible Applicant	Bachelor's degree in science and technology, biology
	12) Capacity	About 20 researchers will be accepted in whole NREP
	13) Host Organization	Nuclear Safety Research Association (NSRA), Japan
	14) Host Country	Japan
	15) Sponsorship	*Transportation (airticket, travel expenses between arival airport and the host organization in Japan) *Daily allowance *Accommodation
	16) Source of funds	Ministry of Education, Culture, Sports, Science and Technology (MEXT), Japan
	17) How to Apply	Please see; http://www.nsra.or.jp/int/iard/exchange.html
	18) Inquiries	Nuclear Safety Research Association (NSRA) International Affairs & Research Department Address: 5-18-7, Minato-ku, Shimbashi, Tokyo, JAPAN 1050004 Tel: +81-3-5470-1983 Fax: +81-3-5470-1991 http://www.nsra.or.jp/int/iard/exchange.html

No.	Question	Answer
22	**1) Program title**	MEXT Nuclear Research Exchange Program (NREP) 2013 Individual Research Subject Course "Phosphorylation of H2AX in plants after inducing DNA damages by irradiation"
	2) Field	☐ A. Radioactive Waste Management ☐ B-1. Radiation/RI Application for Industry ■ B-2. Radiation/RI Application for Environment ☐ B-3. Radiation/RI Application for Health Care ☐ B-4. Radiation/RI Application for Neutron Application ☐ B-5. Radiation/RI Other than the Above ☐ C. Research Reactor ☐ D. Nuclear Power Reactor ☐ E-1. Nuclear Safety ☐ E-2. Radiation Safety ☐ F. Policy/Planning/Administration ☐ G. Others
	3) Outline of the Program	Each plant species has different radiation sensitivity. Such difference may be brought by difference in formation of DNCA damage or in responses against them. Phosphorylation of H2AX (a subtype of histone H2A) is one of the earliest response after DNA damage formation (especially for DSBs). For clarifying those possibilities, radiation sensitivity and phosphorylation pattern of H2AX in some plant species will be examined.
	4) Method of the Program	Cooperative research (Detail will be finalized after personnel selection)
	5) Schedule of the Program	Negotiable
	6) Duration	6 months
	7) Venue	Biology Group, The Wakasa Wan Energy Research Center (WERC), Tsuruga, Fukui Pref., Japan
	8) Working Language	English
	9) Application Period	February 29 - March 29, 2013
	10) Eligible Countries	Australia, Bangladesh, China, Indonesia, Kazakhstan, Korea, Malaysia, Mongolia, the Philippines, Sri Lanka, Thaland, Vietnam
	11) Eligible Applicant	*Bachelor's degree or master's degree in biology, biochemistry *Young researcher who has background in molecular biology and cell biology *Experience on immunostaining method or western blotting
	12) Capacity	About 20 researchers will be accepted in whole NREP
	13) Host Organization	Nuclear Safety Research Association (NSRA), Japan
	14) Host Country	Japan
	15) Sponsorship	*Transportation (airticket, travel expenses between arival airport and the host organization in Japan) *Daily allowance *Accommodation
	16) Source of funds	Ministry of Education, Culture, Sports, Science and Technology (MEXT), Japan
	17) How to Apply	Please see; http://www.nsra.or.jp/int/iard/exchange.html
	18) Inquiries	Nuclear Safety Research Association (NSRA) International Affairs & Research Department Address: 5-18-7, Minato-ku, Shimbashi, Tokyo, JAPAN 1050004 Tel: +81-3-5470-1983 Fax: +81-3-5470-1991 http://www.nsra.or.jp/int/iard/exchange.html

No.	Question	Answer
23	**1) Program title**	MEXT Nuclear Research Exchange Program (NREP) 2013 Individual Research Subject Course "Mutation frequency and DNA damages"
	2) Field	☐ A. Radioactive Waste Management ☐ B-1. Radiation/RI Application for Industry ■ B-2. Radiation/RI Application for Environment ☐ B-3. Radiation/RI Application for Health Care ☐ B-4. Radiation/RI Application for Neutron Application ☐ B-5. Radiation/RI Other than the Above ☐ C. Research Reactor ☐ D. Nuclear Power Reactor ☐ E-1. Nuclear Safety ☐ E-2. Radiation Safety ☐ F. Policy/Planning/Administration ☐ G. Others
	3) Outline of the Program	Phosphorylation of H2AX (a subtype of histone H2A) is one of the markers for DNA damages, especially for DSBs. In this theme, to study about the relationship between DNA damages and mutagenesis, phosphorylation pattern of H2AX and mutation frequency in Arabidopsis thaliana will be examined after several kinds (eg. X-ray vs. High LET carbon-beams) and doses of irradiation.
	4) Method of the Program	Cooperative research (Detail will be finalized after personnel selection)
	5) Schedule of the Program	Negotiable
	6) Duration	6 months
	7) Venue	Biology Group, The Wakasa Wan Energy Research Center (WERC), Tsuruga, Fukui Pref., Japan
	8) Working Language	English
	9) Application Period	February 29 - March 29, 2013
	10) Eligible Countries	Australia, Bangladesh, China, Indonesia, Kazakhstan, Korea, Malaysia, Mongolia, the Philippines, Sri Lanka, Thaland, Vietnam
	11) Eligible Applicant	*Bachelor's degree or master's degree in biology, biochemistry *Young researcher who has background in molecular biology and cell biology *Experience on immunostaining method or western blotting
	12) Capacity	About 20 researchers will be accepted in whole NREP
	13) Host Organization	Nuclear Safety Research Association (NSRA), Japan
	14) Host Country	Japan
	15) Sponsorship	*Transportation (airticket, travel expenses between arival airport and the host organization in Japan) *Daily allowance *Accommodation
	16) Source of funds	Ministry of Education, Culture, Sports, Science and Technology (MEXT), Japan
	17) How to Apply	Please see; http://www.nsra.or.jp/int/iard/exchange.html
	18) Inquiries	Nuclear Safety Research Association (NSRA) International Affairs & Research Department Address: 5-18-7, Minato-ku, Shimbashi, Tokyo, JAPAN 1050004 Tel: +81-3-5470-1983 Fax: +81-3-5470-1991 http://www.nsra.or.jp/int/iard/exchange.html

No.	Question	Answer
24	**1) Program title**	MEXT Nuclear Research Exchange Program (NREP) 2013 Individual Research Subject Course "Analysis of radiation effects at molecular level on mutation induction of mammalian cells"
	2) Field	☐ A. Radioactive Waste Management ☐ B-1. Radiation/RI Application for Industry ☐ B-2. Radiation/RI Application for Environment ■ B-3. Radiation/RI Application for Health Care ☐ B-4. Radiation/RI Application for Neutron Application ☐ B-5. Radiation/RI Other than the Above ☐ C. Research Reactor ☐ D. Nuclear Power Reactor ☐ E-1. Nuclear Safety ☐ E-2. Radiation Safety ☐ F. Policy/Planning/Administration ☐ G. Others
	3) Outline of the Program	The objective of this study is to determine whether radiation-induced DNA damage, cell killing and mutation induction in mammalian cells are influenced by radiation quality. Response of mammalian cells at molecular level to gamma irradiation compared to ion beam irradiation will be investigated.
	4) Method of the Program	Cooperative research (Detail will be finalized after personnel selection)
	5) Schedule of the Program	Negotiable
	6) Duration	6 months
	7) Venue	Biology Group, The Wakasa Wan Energy Research Center (WERC), Tsuruga, Fukui Pref., Japan
	8) Working Language	English
	9) Application Period	February 29 - March 29, 2013
	10) Eligible Countries	Australia, Bangladesh, China, Indonesia, Kazakhstan, Korea, Malaysia, Mongolia, the Philippines, Sri Lanka, Thaland, Vietnam
	11) Eligible Applicant	*Bachelor's degree or master's degree in biology, biochemistry *Mastered manipulation of cells *Willingness to do things
	12) Capacity	About 20 researchers will be accepted in whole NREP
	13) Host Organization	Nuclear Safety Research Association (NSRA), Japan
	14) Host Country	Japan
	15) Sponsorship	*Transportation (airticket, travel expenses between arival airport and the host organization in Japan) *Daily allowance *Accommodation
	16) Source of funds	Ministry of Education, Culture, Sports, Science and Technology (MEXT), Japan
	17) How to Apply	Please see; http://www.nsra.or.jp/int/iard/exchange.html
	18) Inquiries	Nuclear Safety Research Association (NSRA) International Affairs & Research Department Address: 5-18-7, Minato-ku, Shimbashi, Tokyo, JAPAN 1050004 Tel: +81-3-5470-1983 Fax: +81-3-5470-1991 http://www.nsra.or.jp/int/iard/exchange.html

No.	Question	Answer
25	**1) Program title**	MEXT Nuclear Research Exchange Program (NREP) 2013 Individual Research Subject Course "Development of DNA marker to improve efficiency in radiation-induced mutation breeding"
	2) Field	☐ A. Radioactive Waste Management ☐ B-1. Radiation/RI Application for Industry ☐ B-2. Radiation/RI Application for Environment ■ B-3. Radiation/RI Application for Health Care ☐ B-4. Radiation/RI Application for Neutron Application ☐ B-5. Radiation/RI Other than the Above ☐ C. Research Reactor ☐ D. Nuclear Power Reactor ☐ E-1. Nuclear Safety ☐ E-2. Radiation Safety ☐ F. Policy/Planning/Administration ☐ G. Others
	3) Outline of the Program	Development of DNA marker for radiation induced mutant using RAPD and AFLP
	4) Method of the Program	Cooperative research (Detail will be finalized after personnel selection)
	5) Schedule of the Program	Negotiable
	6) Duration	6 months
	7) Venue	Biology Group, The Wakasa Wan Energy Research Center (WERC), Tsuruga, Fukui Pref., Japan
	8) Working Language	English
	9) Application Period	February 29 - March 29, 2013
	10) Eligible Countries	Australia, Bangladesh, China, Indonesia, Kazakhstan, Korea, Malaysia, Mongolia, the Philippines, Sri Lanka, Thaland, Vietnam
	11) Eligible Applicant	*Bachelor's degree or master's degree in science and technology *Skilled DNA experiment *Willingness to engage in experiments
	12) Capacity	About 20 researchers will be accepted in whole NREP
	13) Host Organization	Nuclear Safety Research Association (NSRA), Japan
	14) Host Country	Japan
	15) Sponsorship	*Transportation (airticket, travel expenses between arival airport and the host organization in Japan) *Daily allowance *Accommodation
	16) Source of funds	Ministry of Education, Culture, Sports, Science and Technology (MEXT), Japan
	17) How to Apply	Please see; http://www.nsra.or.jp/int/iard/exchange.html
	18) Inquiries	Nuclear Safety Research Association (NSRA) International Affairs & Research Department Address: 5-18-7, Minato-ku, Shimbashi, Tokyo, JAPAN 1050004 Tel: +81-3-5470-1983 Fax: +81-3-5470-1991 http://www.nsra.or.jp/int/iard/exchange.html

No.	Question	Answer
26	**1) Program title**	MEXT Nuclear Research Exchange Program (NREP) 2013 Individual Research Subject Course "To acquire reactor dismantling method and technology"
	2) Field	☐ A. Radioactive Waste Management ☐ B-1. Radiation/RI Application for Industry ☐ B-2. Radiation/RI Application for Environment ☐ B-3. Radiation/RI Application for Health Care ☐ B-4. Radiation/RI Application for Neutron Application ☐ B-5. Radiation/RI Other than the Above ■ C. Research Reactor ☐ D. Nuclear Power Reactor ☐ E-1. Nuclear Safety ☐ E-2. Radiation Safety ☐ F. Policy/Planning/Administration ☐ G. Others
	3) Outline of the Program	* Reactor dismantling procedure * Cutting method of dismantling object * Application for cutting method of reactor dismantling
	4) Method of the Program	Cooperative research (Detail will be finalized after personnel selection)
	5) Schedule of the Program	Negotiable
	6) Duration	3 months
	7) Venue	Fugen Decommissioning Engineering Center, Japan Atomic Energy Agency (JAEA), Tsuruga, Fukui Pref., Japan
	8) Working Language	English
	9) Application Period	February 29 - March 29, 2013
	10) Eligible Countries	Australia, Bangladesh, China, Indonesia, Kazakhstan, Korea, Malaysia, Mongolia, the Philippines, Sri Lanka, Thaland, Vietnam
	11) Eligible Applicant	* University graduates * Knowledge of nuclear engineering and radiation
	12) Capacity	About 20 researchers will be accepted in whole NREP
	13) Host Organization	Nuclear Safety Research Association (NSRA), Japan
	14) Host Country	Japan
	15) Sponsorship	*Transportation (airticket, travel expenses between arival airport and the host organization in Japan) *Daily allowance *Accommodation
	16) Source of funds	Ministry of Education, Culture, Sports, Science and Technology (MEXT), Japan
	17) How to Apply	Please see; http://www.nsra.or.jp/int/iard/exchange.html
	18) Inquiries	Nuclear Safety Research Association (NSRA) International Affairs & Research Department Address: 5-18-7, Minato-ku, Shimbashi, Tokyo, JAPAN 1050004 Tel: +81-3-5470-1983 Fax: +81-3-5470-1991 http://www.nsra.or.jp/int/iard/exchange.html

No.	Question	Answer	
27	**1) Program title**	MEXT Nuclear Research Exchange Program (NREP) 2013 Individual Research Subject Course "Coincidence method in position measurement or imaging of the radiation"	
	2) Field		A. Radioactive Waste Management
			B-1. Radiation/RI Application for Industry
			B-2. Radiation/RI Application for Environment
			B-3. Radiation/RI Application for Health Care
			B-4. Radiation/RI Application for Neutron Application
			B-5. Radiation/RI Other than the Above
		■	C. Research Reactor
			D. Nuclear Power Reactor
		■	E-1. Nuclear Safety
			E-2. Radiation Safety
			F. Policy/Planning/Administration
			G. Others
	3) Outline of the Program	Acquirement of the coincidence technique or time laps measurement useful for the identification of the location of the radiation and imaging of radiation event.	
	4) Method of the Program	Cooperative research (Detail will be finalized after personnel selection)	
	5) Schedule of the Program	Negotiable	
	6) Duration	1 month	
	7) Venue	Accelerator Group, The Wakasa Wan Energy Research Center, Tsuruga, Fukui Pref., Japan	
	8) Working Language	English	
	9) Application Period	February 29 - March 29, 2013	
	10) Eligible Countries	Australia, Bangladesh, China, Indonesia, Kazakhstan, Korea, Malaysia, Mongolia, the Philippines, Sri Lanka, Thaland, Vietnam	
	11) Eligible Applicant	* Bachelor's degree in science and technology * Engaged in radiation measurement	
	12) Capacity	About 20 researchers will be accepted in whole NREP	
	13) Host Organization	Nuclear Safety Research Association (NSRA), Japan	
	14) Host Country	Japan	
	15) Sponsorship	*Transportation (airticket, travel expenses between arival airport and the host organization in Japan) *Daily allowance *Accommodation	
	16) Source of funds	Ministry of Education, Culture, Sports, Science and Technology (MEXT), Japan	
	17) How to Apply	Please see; http://www.nsra.or.jp/int/iard/exchange.html	
	18) Inquiries	Nuclear Safety Research Association (NSRA) International Affairs & Research Department Address: 5-18-7, Minato-ku, Shimbashi, Tokyo, JAPAN 1050004 Tel: +81-3-5470-1983 Fax: +81-3-5470-1991 http://www.nsra.or.jp/int/iard/exchange.html	

No.	Question	Answer
28	**1) Program title**	MEXT Nuclear Research Exchange Program (NREP) 2013 Individual Research Subject Course "Operation and maintenance management"
	2) Field	☐ A. Radioactive Waste Management ☐ B-1. Radiation/RI Application for Industry ☐ B-2. Radiation/RI Application for Environment ☐ B-3. Radiation/RI Application for Health Care ☐ B-4. Radiation/RI Application for Neutron Application ☐ B-5. Radiation/RI Other than the Above ■ C. Research Reactor ☐ D. Nuclear Power Reactor ☐ E-1. Nuclear Safety ☐ E-2. Radiation Safety ☐ F. Policy/Planning/Administration ☐ G. Others
	3) Outline of the Program	To have hands-on experience on operation and maintenance management of high power RR
	4) Method of the Program	Cooperative research (Detail will be finalized after personnel selection)
	5) Schedule of the Program	Negotiable
	6) Duration	3~6 months
	7) Venue	JRR-3 (Research Reactor), Japan Atomic Energy Angency (JAEA), Tokai, Ibaraki Pref., Japan
	8) Working Language	English
	9) Application Period	February 29 - March 29, 2013
	10) Eligible Countries	Australia, Bangladesh, China, Indonesia, Kazakhstan, Korea, Malaysia, Mongolia, the Philippines, Sri Lanka, Thaland, Vietnam
	11) Eligible Applicant	Engaged in reactor operation and maintenance
	12) Capacity	About 20 researchers will be accepted in whole NREP
	13) Host Organization	Nuclear Safety Research Association (NSRA), Japan
	14) Host Country	Japan
	15) Sponsorship	*Transportation (airticket, travel expenses between arival airport and the host organization in Japan) *Daily allowance *Accommodation
	16) Source of funds	Ministry of Education, Culture, Sports, Science and Technology (MEXT), Japan
	17) How to Apply	Please see; http://www.nsra.or.jp/int/iard/exchange.html
	18) Inquiries	Nuclear Safety Research Association (NSRA) International Affairs & Research Department Address: 5-18-7, Minato-ku, Shimbashi, Tokyo, JAPAN 1050004 Tel: +81-3-5470-1983 Fax: +81-3-5470-1991 http://www.nsra.or.jp/int/iard/exchange.html

No.	Question	Answer
29	**1) Program title**	MEXT Nuclear Research Exchange Program (NREP) 2013 Individual Research Subject Course "Conceptual design study for multipurpose small size test/research reactor"
	2) Field	☐ A. Radioactive Waste Management ☐ B-1. Radiation/RI Application for Industry ☐ B-2. Radiation/RI Application for Environment ☐ B-3. Radiation/RI Application for Health Care ☐ B-4. Radiation/RI Application for Neutron Application ☐ B-5. Radiation/RI Other than the Above ■ C. Research Reactor ☐ D. Nuclear Power Reactor ☐ E-1. Nuclear Safety ☐ E-2. Radiation Safety ☐ F. Policy/Planning/Administration ☐ G. Others
	3) Outline of the Program	Nuclear and thermohydraulic design of core, selection of reactor core component materials, plant system, irradiation facilities, radiation monitoring and management system will be carried out as a conceptual design.
	4) Method of the Program	Cooperative research (Detail will be finalized after personnel selection)
	5) Schedule of the Program	Negotiable
	6) Duration	3 months
	7) Venue	Neutron Irradiation and Testing Reactor Center, Japan Atomic Energy Agency (JAEA), Oarai, Ibaraki Pref., Japan
	8) Working Language	English
	9) Application Period	February 29 - March 29, 2013
	10) Eligible Countries	Australia, Bangladesh, China, Indonesia, Kazakhstan, Korea, Malaysia, Mongolia, the Philippines, Sri Lanka, Thaland, Vietnam
	11) Eligible Applicant	* Master's degree or bachelor's degree in science and technology * Engaged in design, operation, maintenance, etc. of test/research reactor
	12) Capacity	About 20 researchers will be accepted in whole NREP
	13) Host Organization	Nuclear Safety Research Association (NSRA), Japan
	14) Host Country	Japan
	15) Sponsorship	*Transportation (airticket, travel expenses between arival airport and the host organization in Japan) *Daily allowance *Accommodation
	16) Source of funds	Ministry of Education, Culture, Sports, Science and Technology (MEXT), Japan
	17) How to Apply	Please see; http://www.nsra.or.jp/int/iard/exchange.html
	18) Inquiries	Nuclear Safety Research Association (NSRA) International Affairs & Research Department Address: 5-18-7, Minato-ku, Shimbashi, Tokyo, JAPAN 1050004 Tel: +81-3-5470-1983 Fax: +81-3-5470-1991 http://www.nsra.or.jp/int/iard/exchange.html

No.	Question	Answer
30	**1) Program title**	MEXT Nuclear Research Exchange Program (NREP) 2013 Individual Research Subject Course "Analysis of critial experiments and initial core of LWR using deterministic and Monte-Carlo codes"
	2) Field	A. Radioactive Waste Management
		B-1. Radiation/RI Application for Industry
		B-2. Radiation/RI Application for Environment
		B-3. Radiation/RI Application for Health Care
		B-4. Radiation/RI Application for Neutron Application
		B-5. Radiation/RI Other than the Above
		■ C. Research Reactor
		D. Nuclear Power Reactor
		E-1. Nuclear Safety
		E-2. Radiation Safety
		F. Policy/Planning/Administration
		G. Others
	3) Outline of the Program	Detail analysis of critical experiments is carried out using state-of art neutronics codes, such as SRAC, MVP and AEGIS, with various cross section files. Analysis of an ideal initial core of large LWR is also tried, in order to grasp the error caused by energy group collapsing and/or spatial homogenization. During the course of this study, the researcher will have rich experience on various neutronics design codes.
	4) Method of the Program	Cooperative research (Detail will be finalized after personnel selection)
	5) Schedule of the Program	Negotiable
	6) Duration	7 months
	7) Venue	Graduate School of Engineering, Department of Materials, Physics and Energy Engineering, Quantum Science and Energy Engineering, Nagoya University, Nagoya, Aichi Pref., Japan
	8) Working Language	English
	9) Application Period	February 29 - March 29, 2013
	10) Eligible Countries	Australia, Bangladesh, China, Indonesia, Kazakhstan, Korea, Malaysia, Mongolia, the Philippines, Sri Lanka, Thaland, Vietnam
	11) Eligible Applicant	* Bachelor's degree in science and technology * Basic knowledge of nucler engineering
	12) Capacity	About 20 researchers will be accepted in whole NREP
	13) Host Organization	Nuclear Safety Research Association (NSRA), Japan
	14) Host Country	Japan
	15) Sponsorship	*Transportation (airticket, travel expenses between arival airport and the host organization in Japan) *Daily allowance *Accommodation
	16) Source of funds	Ministry of Education, Culture, Sports, Science and Technology (MEXT), Japan
	17) How to Apply	Please see; http://www.nsra.or.jp/int/iard/exchange.html
	18) Inquiries	Nuclear Safety Research Association (NSRA) International Affairs & Research Department Address: 5-18-7, Minato-ku, Shimbashi, Tokyo, JAPAN 1050004 Tel: +81-3-5470-1983 Fax: +81-3-5470-1991 http://www.nsra.or.jp/int/iard/exchange.html

No.	Question	Answer
31	**1) Program title**	MEXT Nuclear Research Exchange Program (NREP) 2013 Individual Research Subject Course "Properties of nuclear reactor materials under neutron irradiation"
	2) Field	A. Radioactive Waste Management
		B-1. Radiation/RI Application for Industry
		B-2. Radiation/RI Application for Environment
		B-3. Radiation/RI Application for Health Care
		B-4. Radiation/RI Application for Neutron Application
		B-5. Radiation/RI Other than the Above
		■ C. Research Reactor
		■ D. Nuclear Power Reactor
		E-1. Nuclear Safety
		E-2. Radiation Safety
		F. Policy/Planning/Administration
		G. Others
	3) Outline of the Program	For the selection of nuclear materials, the understanding of irradiation behaviors is important. Neutron irradiation effects of fission reactor materials are studieed by using positron annihilation spectroscopy and transmission electron microscopy
	4) Method of the Program	Cooperative research (Detail will be finalized after personnel selection)
	5) Schedule of the Program	Negotiable
	6) Duration	6 months
	7) Venue	Research Reactor Institute, Kyoto University, Kumatori, Osaka Pref., Japan
	8) Working Language	English
	9) Application Period	February 29 - March 29, 2013
	10) Eligible Countries	Australia, Bangladesh, China, Indonesia, Kazakhstan, Korea, Malaysia, Mongolia, the Philippines, Sri Lanka, Thaland, Vietnam
	11) Eligible Applicant	Graduate of university of science and technology
	12) Capacity	About 20 researchers will be accepted in whole NREP
	13) Host Organization	Nuclear Safety Research Association (NSRA), Japan
	14) Host Country	Japan
	15) Sponsorship	*Transportation (airticket, travel expenses between arival airport and the host organization in Japan) *Daily allowance *Accommodation
	16) Source of funds	Ministry of Education, Culture, Sports, Science and Technology (MEXT), Japan
	17) How to Apply	Please see; http://www.nsra.or.jp/int/iard/exchange.html
	18) Inquiries	Nuclear Safety Research Association (NSRA) International Affairs & Research Department Address: 5-18-7, Minato-ku, Shimbashi, Tokyo, JAPAN 1050004 Tel: +81-3-5470-1983 Fax: +81-3-5470-1991 http://www.nsra.or.jp/int/iard/exchange.html

No.	Question	Answer
32	**1) Program title**	MEXT Nuclear Research Exchange Program (NREP) 2013 Individual Research Subject Course "Study of dose evaluation for X-ray and gamma-rays"
	2) Field	☐ A. Radioactive Waste Management
		☐ B-1. Radiation/RI Application for Industry
		☐ B-2. Radiation/RI Application for Environment
		☐ B-3. Radiation/RI Application for Health Care
		☐ B-4. Radiation/RI Application for Neutron Application
		☐ B-5. Radiation/RI Other than the Above
		☐ C. Research Reactor
		☐ D. Nuclear Power Reactor
		☐ E-1. Nuclear Safety
		■ E-2. Radiation Safety
		☐ F. Policy/Planning/Administration
		☐ G. Others
	3) Outline of the Program	Measurements and simulation of X-rays and gamma-rays spectra using Ge detector for evaluation of radiation dose.
	4) Method of the Program	Cooperative research (Detail will be finalized after personnel selection)
	5) Schedule of the Program	Negotiable
	6) Duration	3 months
	7) Venue	Ionizing Radiation Section, Quantum Radiation Division, National Metrology Institute of Japan, National Institute of Advanced Industrial Science and Technology (AIST), Tsukuba, Ibaraki Pref., Japan
	8) Working Language	English
	9) Application Period	February 29 - March 29, 2013
	10) Eligible Countries	Australia, Bangladesh, China, Indonesia, Kazakhstan, Korea, Malaysia, Mongolia, the Philippines, Sri Lanka, Thaland, Vietnam
	11) Eligible Applicant	* Master's degree or bachelor's degree in science and technology * Engaged in radiation measurement
	12) Capacity	About 20 researchers will be accepted in whole NREP
	13) Host Organization	Nuclear Safety Research Association (NSRA), Japan
	14) Host Country	Japan
	15) Sponsorship	*Transportation (airticket, travel expenses between arival airport and the host organization in Japan) *Daily allowance *Accommodation
	16) Source of funds	Ministry of Education, Culture, Sports, Science and Technology (MEXT), Japan
	17) How to Apply	Please see; http://www.nsra.or.jp/int/iard/exchange.html
	18) Inquiries	Nuclear Safety Research Association (NSRA) International Affairs & Research Department Address: 5-18-7, Minato-ku, Shimbashi, Tokyo, JAPAN 1050004 Tel: +81-3-5470-1983 Fax: +81-3-5470-1991 http://www.nsra.or.jp/int/iard/exchange.html

No.	Question	Answer
33	**1) Program title**	MEXT Nuclear Research Exchange Program (NREP) 2013 Individual Research Subject Course "Quantitative measurement of residual radioactivity"
	2) Field	A. Radioactive Waste Management
		B-1. Radiation/RI Application for Industry
		B-2. Radiation/RI Application for Environment
		B-3. Radiation/RI Application for Health Care
		B-4. Radiation/RI Application for Neutron Application
		B-5. Radiation/RI Other than the Above
		C. Research Reactor
		D. Nuclear Power Reactor
		E-1. Nuclear Safety
		■ E-2. Radiation Safety
		F. Policy/Planning/Administration
		G. Others
	3) Outline of the Program	Residual radioactivity in the accelerator facility will be surveyed. Gamma-ray analysis of drinking water from Fukushima area will be carried out.
	4) Method of the Program	Cooperative research (Detail will be finalized after personnel selection)
	5) Schedule of the Program	Negotiable
	6) Duration	3~6 months
	7) Venue	Proton Medical Research Group, The Wakasa Wan Energy Research Center (WERC), Tsuruga, Fukui Pref., Japan
	8) Working Language	English
	9) Application Period	February 29 - March 29, 2013
	10) Eligible Countries	Australia, Bangladesh, China, Indonesia, Kazakhstan, Korea, Malaysia, Mongolia, the Philippines, Sri Lanka, Thaland, Vietnam
	11) Eligible Applicant	* Master's degree or bachelor's degree in science and technology * Engaged in radiation control
	12) Capacity	About 20 researchers will be accepted in whole NREP
	13) Host Organization	Nuclear Safety Research Association (NSRA), Japan
	14) Host Country	Japan
	15) Sponsorship	*Transportation (airticket, travel expenses between arival airport and the host organization in Japan) *Daily allowance *Accommodation
	16) Source of funds	Ministry of Education, Culture, Sports, Science and Technology (MEXT), Japan
	17) How to Apply	Please see; http://www.nsra.or.jp/int/iard/exchange.html
	18) Inquiries	Nuclear Safety Research Association (NSRA) International Affairs & Research Department Address: 5-18-7, Minato-ku, Shimbashi, Tokyo, JAPAN 1050004 Tel: +81-3-5470-1983 Fax: +81-3-5470-1991 http://www.nsra.or.jp/int/iard/exchange.html

No.	Question	Answer
34	**1) Program title**	MEXT Nuclear Research Exchange Program (NREP) 2013 Individual Research Subject Course "Improvement of the techniques for the cytogenetic biodosimetry in the radiation emergency medicine"
	2) Field	☐ A. Radioactive Waste Management ☐ B-1. Radiation/RI Application for Industry ☐ B-2. Radiation/RI Application for Environment ☐ B-3. Radiation/RI Application for Health Care ☐ B-4. Radiation/RI Application for Neutron Application ☐ B-5. Radiation/RI Other than the Above ☐ C. Research Reactor ☐ D. Nuclear Power Reactor ☐ E-1. Nuclear Safety ■ E-2. Radiation Safety ☐ F. Policy/Planning/Administration ☐ G. Others
	3) Outline of the Program	In order to supply rapidly and accurately the data of dose assessment to the medical field in the radiological accident, it is necessary to improve the techniques for the cytogenetic biodosimetry; dicentric, translocation and PCC-ring assays. In the present study, the purpose is to master the basic techniques for the cytogenetic biodosimetry and then to improve these techniques by using molecular probe.
	4) Method of the Program	Cooperative research (Detail will be finalized after personnel selection)
	5) Schedule of the Program	Negotiable
	6) Duration	6 months
	7) Venue	Departament of Radiation Biology, Institute of Radiation Emergency Medicine, Hirosaki University, Hirosaki, Aomori Pref., Japan
	8) Working Language	English
	9) Application Period	February 29 - March 29, 2013
	10) Eligible Countries	Australia, Bangladesh, China, Indonesia, Kazakhstan, Korea, Malaysia, Mongolia, the Philippines, Sri Lanka, Thaland, Vietnam
	11) Eligible Applicant	Cytogenecist, cytogenetic technician and chromosome researcher
	12) Capacity	About 20 researchers will be accepted in whole NREP
	13) Host Organization	Nuclear Safety Research Association (NSRA), Japan
	14) Host Country	Japan
	15) Sponsorship	*Transportation (airticket, travel expenses between arival airport and the host organization in Japan) *Daily allowance *Accommodation
	16) Source of funds	Ministry of Education, Culture, Sports, Science and Technology (MEXT), Japan
	17) How to Apply	Please see; http://www.nsra.or.jp/int/iard/exchange.html
	18) Inquiries	Nuclear Safety Research Association (NSRA) International Affairs & Research Department Address: 5-18-7, Minato-ku, Shimbashi, Tokyo, JAPAN 1050004 Tel: +81-3-5470-1983 Fax: +81-3-5470-1991 http://www.nsra.or.jp/int/iard/exchange.html

No.	Question	Answer
35	**1) Program title**	MEXT Nuclear Research Exchange Program (NREP) 2013 Individual Research Subject Course "Development of new biological marker for the dose assessment in the raditation emergency medicine"
	2) Field	☐ A. Radioactive Waste Management ☐ B-1. Radiation/RI Application for Industry ☐ B-2. Radiation/RI Application for Environment ☐ B-3. Radiation/RI Application for Health Care ☐ B-4. Radiation/RI Application for Neutron Application ☐ B-5. Radiation/RI Other than the Above ☐ C. Research Reactor ☐ D. Nuclear Power Reactor ☐ E-1. Nuclear Safety ■ E-2. Radiation Safety ☐ F. Policy/Planning/Administration ☐ G. Others
	3) Outline of the Program	In the radiological accidents, it will be necessary to estimate the radiation dose in the victims in early stage. For this purpose, the most important study is to develop and find out the new biological marker for the dose assessment instead of chromosome aberration. In this study, we are going to analyze the irradiated whole blood lymphocytes using the techniques of the proteomics and metabolomics.
	4) Method of the Program	Cooperative research (Detail will be finalized after personnel selection)
	5) Schedule of the Program	Negotiable
	6) Duration	6 months
	7) Venue	Departament of Radiation Biology, Institute of Radiation Emergency Medicine, Hirosaki University, Hirosaki, Aomori Pref., Japan
	8) Working Language	English
	9) Application Period	February 29 - March 29, 2013
	10) Eligible Countries	Australia, Bangladesh, China, Indonesia, Kazakhstan, Korea, Malaysia, Mongolia, the Philippines, Sri Lanka, Thaland, Vietnam
	11) Eligible Applicant	Cytogeneticist and biologist
	12) Capacity	About 20 researchers will be accepted in whole NREP
	13) Host Organization	Nuclear Safety Research Association (NSRA), Japan
	14) Host Country	Japan
	15) Sponsorship	*Transportation (airticket, travel expenses between arival airport and the host organization in Japan) *Daily allowance *Accommodation
	16) Source of funds	Ministry of Education, Culture, Sports, Science and Technology (MEXT), Japan
	17) How to Apply	Please see; http://www.nsra.or.jp/int/iard/exchange.html
	18) Inquiries	Nuclear Safety Research Association (NSRA) International Affairs & Research Department Address: 5-18-7, Minato-ku, Shimbashi, Tokyo, JAPAN 1050004 Tel: +81-3-5470-1983 Fax: +81-3-5470-1991 http://www.nsra.or.jp/int/iard/exchange.html

No.	Question	Answer
36	**1) Program title**	MEXT Nuclear Research Exchange Program (NREP) 2013 Individual Research Subject Course "Development of the new chemical substances for the radiation protection"
	2) Field	☐ A. Radioactive Waste Management ☐ B-1. Radiation/RI Application for Industry ☐ B-2. Radiation/RI Application for Environment ☐ B-3. Radiation/RI Application for Health Care ☐ B-4. Radiation/RI Application for Neutron Application ☐ B-5. Radiation/RI Other than the Above ☐ C. Research Reactor ☐ D. Nuclear Power Reactor ☐ E-1. Nuclear Safety ■ E-2. Radiation Safety ☐ F. Policy/Planning/Administration ☐ G. Others
	3) Outline of the Program	In order to reduce the effect of radiation in human body, it is very important to develop the new chemical substances. In this study, we will analyze the frequency of chromosome aberration in irradiated lymphocytes treated with some chemicals for the radiaton protection.
	4) Method of the Program	Cooperative research (Detail will be finalized after personnel selection)
	5) Schedule of the Program	Negotiable
	6) Duration	6 months
	7) Venue	Departament of Radiation Biology, Institute of Radiation Emergency Medicine, Hirosaki University, Hirosaki, Aomori Pref., Japan
	8) Working Language	English
	9) Application Period	February 29 - March 29, 2013
	10) Eligible Countries	Australia, Bangladesh, China, Indonesia, Kazakhstan, Korea, Malaysia, Mongolia, the Philippines, Sri Lanka, Thaland, Vietnam
	11) Eligible Applicant	Cytogeneticist, cytogenetic technician and chromosome researcher
	12) Capacity	About 20 researchers will be accepted in whole NREP
	13) Host Organization	Nuclear Safety Research Association (NSRA), Japan
	14) Host Country	Japan
	15) Sponsorship	*Transportation (airticket, travel expenses between arival airport and the host organization in Japan) *Daily allowance *Accommodation
	16) Source of funds	Ministry of Education, Culture, Sports, Science and Technology (MEXT), Japan
	17) How to Apply	Please see; http://www.nsra.or.jp/int/iard/exchange.html
	18) Inquiries	Nuclear Safety Research Association (NSRA) International Affairs & Research Department Address: 5-18-7, Minato-ku, Shimbashi, Tokyo, JAPAN 1050004 Tel: +81-3-5470-1983 Fax: +81-3-5470-1991 http://www.nsra.or.jp/int/iard/exchange.html

No.	Question	Answer
37	**1) Program title**	MEXT Nuclear Research Exchange Program (NREP) 2013 Individual Research Subject Course "Simultaneous monitoring of radon, carbon dioxide and its carbon isotopes in soil and lower atmosphere environment"
	2) Field	☐ A. Radioactive Waste Management ☐ B-1. Radiation/RI Application for Industry ☐ B-2. Radiation/RI Application for Environment ☐ B-3. Radiation/RI Application for Health Care ☐ B-4. Radiation/RI Application for Neutron Application ☐ B-5. Radiation/RI Other than the Above ☐ C. Research Reactor ☐ D. Nuclear Power Reactor ☐ E-1. Nuclear Safety ■ E-2. Radiation Safety ☐ F. Policy/Planning/Administration ☐ G. Others
	3) Outline of the Program	Long term monitoring of radon, carbon dioxide and its carbon isotopes in atmospheric and soil air, in order to investigate process of transportation of gaseous components in soil to the lower atmosphere
	4) Method of the Program	Cooperative research (Detail will be finalized after personnel selection)
	5) Schedule of the Program	Negotiable
	6) Duration	6 months
	7) Venue	Graduate School of Engineering, Division of Quantum Science and Engineering, Laboratory of Quantum Science & Radiation Engineering, Hokkaido University, Sapporo, Hokkaido
	8) Working Language	English
	9) Application Period	February 29 - March 29, 2013
	10) Eligible Countries	Australia, Bangladesh, China, Indonesia, Kazakhstan, Korea, Malaysia, Mongolia, the Philippines, Sri Lanka, Thaland, Vietnam
	11) Eligible Applicant	* Master's degreen in science and technology * Knowledge of radiation
	12) Capacity	About 20 researchers will be accepted in whole NREP
	13) Host Organization	Nuclear Safety Research Association (NSRA), Japan
	14) Host Country	Japan
	15) Sponsorship	*Transportation (airticket, travel expenses between arival airport and the host organization in Japan) *Daily allowance *Accommodation
	16) Source of funds	Ministry of Education, Culture, Sports, Science and Technology (MEXT), Japan
	17) How to Apply	Please see; http://www.nsra.or.jp/int/iard/exchange.html
	18) Inquiries	Nuclear Safety Research Association (NSRA) International Affairs & Research Department Address: 5-18-7, Minato-ku, Shimbashi, Tokyo, JAPAN 1050004 Tel: +81-3-5470-1983 Fax: +81-3-5470-1991 http://www.nsra.or.jp/int/iard/exchange.html

No.	Question	Answer
38	**1) Program title**	MEXT Nuclear Research Exchange Program (NREP) 2013 Individual Research Subject Course "Molecular cytogenetic and genetic analyses in mouse thymic lymphoma induced by irradiation"
	2) Field	☐ A. Radioactive Waste Management
		☐ B-1. Radiation/RI Application for Industry
		☐ B-2. Radiation/RI Application for Environment
		■ B-3. Radiation/RI Application for Health Care
		☐ B-4. Radiation/RI Application for Neutron Application
		☐ B-5. Radiation/RI Other than the Above
		☐ C. Research Reactor
		☐ D. Nuclear Power Reactor
		☐ E-1. Nuclear Safety
		■ E-2. Radiation Safety
		☐ F. Policy/Planning/Administration
		☐ G. Others
	3) Outline of the Program	To investigate the genetic alterations in cancer induced by irradaiation is is very important to know the mechanism of cancer development by radiation exposure. In the present study, we will analyze the cytogenetic and genetic changes in mouse thymic lymphoma induced by irradiation.
	4) Method of the Program	Cooperative research (Detail will be finalized after personnel selection)
	5) Schedule of the Program	Negotiable
	6) Duration	6 months
	7) Venue	Departament of Radiation Biology, Institute of Radiation Emergency Medicine, Hirosaki University, Hirosaki, Aomori Pref., Japan
	8) Working Language	English
	9) Application Period	February 29 - March 29, 2013
	10) Eligible Countries	Australia, Bangladesh, China, Indonesia, Kazakhstan, Korea, Malaysia, Mongolia, the Philippines, Sri Lanka, Thaland, Vietnam
	11) Eligible Applicant	* Cytogeneticist, cytogenetic technician and chromosome researcher
	12) Capacity	About 20 researchers will be accepted in whole NREP
	13) Host Organization	Nuclear Safety Research Association (NSRA), Japan
	14) Host Country	Japan
	15) Sponsorship	*Transportation (airticket, travel expenses between arival airport and the host organization in Japan) *Daily allowance *Accommodation
	16) Source of funds	Ministry of Education, Culture, Sports, Science and Technology (MEXT), Japan
	17) How to Apply	Please see; http://www.nsra.or.jp/int/iard/exchange.html
	18) Inquiries	Nuclear Safety Research Association (NSRA) International Affairs & Research Department Address: 5-18-7, Minato-ku, Shimbashi, Tokyo, JAPAN 1050004 Tel: +81-3-5470-1983 Fax: +81-3-5470-1991 http://www.nsra.or.jp/int/iard/exchange.html

No.	Question	Answer
39	**1) Program title**	MEXT Nuclear Research Exchange Program (NREP) 2013 Individual Research Subject Course "Nuclear security and safeguards"
	2) Field	☐ A. Radioactive Waste Management ☐ B-1. Radiation/RI Application for Industry ☐ B-2. Radiation/RI Application for Environment ☐ B-3. Radiation/RI Application for Health Care ☐ B-4. Radiation/RI Application for Neutron Application ☐ B-5. Radiation/RI Other than the Above ☐ C. Research Reactor ☐ D. Nuclear Power Reactor ☐ E-1. Nuclear Safety ☐ E-2. Radiation Safety ■ F. Policy/Planning/Administration ☐ G. Others
	3) Outline of the Program	Research on the establishment of the methodology for the human resources development in the field of nuclear nonproliferation and nuclear security in Asia
	4) Method of the Program	Cooperative research (Detail will be finalized after personnel selection)
	5) Schedule of the Program	Negotiable
	6) Duration	3 months
	7) Venue	Integrated Support Center for Nuclear Nonproliferation and Nuclear Security (ISCN), Japan Atomic Energy Agency (JAEA), Tokai, Ibaraki Pref., Japan
	8) Working Language	English
	9) Application Period	February 29 - March 29, 2013
	10) Eligible Countries	Australia, Bangladesh, China, Indonesia, Kazakhstan, Korea, Malaysia, Mongolia, the Philippines, Sri Lanka, Thaland, Vietnam
	11) Eligible Applicant	* University graduates * Knowledge of nuclear energy
	12) Capacity	About 20 researchers will be accepted in whole NREP
	13) Host Organization	Nuclear Safety Research Association (NSRA), Japan
	14) Host Country	Japan
	15) Sponsorship	*Transportation (airticket, travel expenses between arival airport and the host organization in Japan) *Daily allowance *Accommodation
	16) Source of funds	Ministry of Education, Culture, Sports, Science and Technology (MEXT), Japan
	17) How to Apply	Please see; http://www.nsra.or.jp/int/iard/exchange.html
	18) Inquiries	Nuclear Safety Research Association (NSRA) International Affairs & Research Department Address: 5-18-7, Minato-ku, Shimbashi, Tokyo, JAPAN 1050004 Tel: +81-3-5470-1983 Fax: +81-3-5470-1991 http://www.nsra.or.jp/int/iard/exchange.html

No.	Question	Answer
40	**1) Program title**	MEXT Nuclear Research Exchange Program (NREP) 2013 Individual Research Subject Course "Nuclear data evaluation for structural material"
	2) Field	A. Radioactive Waste Management
		B-1. Radiation/RI Application for Industry
		B-2. Radiation/RI Application for Environment
		B-3. Radiation/RI Application for Health Care
		B-4. Radiation/RI Application for Neutron Application
		B-5. Radiation/RI Other than the Above
		C. Research Reactor
		D. Nuclear Power Reactor
		E-1. Nuclear Safety
		E-2. Radiation Safety
		F. Policy/Planning/Administration
		■ G. Others
	3) Outline of the Program	Purpose of this study is to advance the nuclear reaction model for the nuclear data evaluation. The cross section evaluation will also be performed for nuclear structural materials.
	4) Method of the Program	Cooperative research (Detail will be finalized after personnel selection)
	5) Schedule of the Program	Negotiable
	6) Duration	6 months
	7) Venue	Nuclear Data Center, Japan Atomic Energy Agency (JAEA), Tokai, Ibaraki Pref., Japan
	8) Working Language	English
	9) Application Period	February 29 - March 29, 2013
	10) Eligible Countries	Australia, Bangladesh, China, Indonesia, Kazakhstan, Korea, Malaysia, Mongolia, the Philippines, Sri Lanka, Thaland, Vietnam
	11) Eligible Applicant	Basic knowledges of nuclear physics and experience of computer programming
	12) Capacity	About 20 researchers will be accepted in whole NREP
	13) Host Organization	Nuclear Safety Research Association (NSRA), Japan
	14) Host Country	Japan
	15) Sponsorship	*Transportation (airticket, travel expenses between arival airport and the host organization in Japan) *Daily allowance *Accommodation
	16) Source of funds	Ministry of Education, Culture, Sports, Science and Technology (MEXT), Japan
	17) How to Apply	Please see; http://www.nsra.or.jp/int/iard/exchange.html
	18) Inquiries	Nuclear Safety Research Association (NSRA) International Affairs & Research Department Address: 5-18-7, Minato-ku, Shimbashi, Tokyo, JAPAN 1050004 Tel: +81-3-5470-1983 Fax: +81-3-5470-1991 http://www.nsra.or.jp/int/iard/exchange.html

No.	Question	Answer
41	**1) Program title**	MEXT Nuclear Research Exchange Program (NREP) 2013 Basic Research Field Course "Nuclear Engineering/Nuclear Safety Engineering (Advanced)"
	2) Field	A. Radioactive Waste Management
		B-1. Radiation/RI Application for Industry
		B-2. Radiation/RI Application for Environment
		B-3. Radiation/RI Application for Health Care
		B-4. Radiation/RI Application for Neutron Application
		B-5. Radiation/RI Other than the Above
		C. Research Reactor
		D. Nuclear Power Reactor
		E-1. Nuclear Safety
		E-2. Radiation Safety
		F. Policy/Planning/Administration
		G. Others
	3) Outline of the Program	Participants in this course acquire overall and basic knowledge such as the following items *Basic Concept of Nuclear Safety *Plant Transients(Normal and Abnormal Conditions) *Nuclear Diffusion and Moderation *Nuclear Reactor Theory *Reactor Kinetics *Safety Design(Concept, Present Situation), Nuclear Reactor Chemistry/Water Chemistry *Safety Analysis(Basic Concept, Nuclear Analysis, Thermal-Hydraulics Analysis, Calculation Code) *Safety Assessment(Basic Concept, Absolute Assessment, Probabilistic Assessment) *Basic Research(Experiment, Research, etc.)
	4) Method of the Program	Basic lectures and basic research under the guidance
	5) Schedule of the Program	Negotiable
	6) Duration	3~4 months
	7) Venue	Research institute of nuclear engineering, University of Fukui, Tsuruga, Fukui Pref., Japan
	8) Working Language	English
	9) Application Period	February 29 - March 29, 2013
	10) Eligible Countries	Australia, Bangladesh, China, Indonesia, Kazakhstan, Korea, Malaysia, Mongolia, the Philippines, Sri Lanka, Thaland, Vietnam
	11) Eligible Applicant	(1) Be a researcher of a governmental or public research, educational or medical institute including a university engaged in research and development for the peaceful use of nuclear energy; (Neither a student nor a professor is qualified.) (2) Be a researcher who has graduated from a university or college and who is involved in research activities at the time of application; (3) Be a nuclear researcher who could contribute to building up/strengthening nuclear base/nuclear safety in each country after returning to his/her country; (4) Have sufficient skills in English and/or Japanese in both speaking and writing; (5) In principle, be less than 50 years of age; (6) Be in physically and mentally good health to perform research activities in Japan; (7) Be not accompanied by his/her family.
	12) Capacity	About 20 researchers will be accepted in whole NREP
	13) Host Organization	Nuclear Safety Research Association (NSRA), Japan
	14) Host Country	Japan
	15) Sponsorship	*Transportation (airticket, travel expenses between arival airport and the host organization in Japan) *Daily allowance *Accommodation
	16) Source of funds	Ministry of Education, Culture, Sports, Science and Technology (MEXT), Japan
	17) How to Apply	Please see; http://www.nsra.or.jp/int/iard/exchange.html
	18) Inquiries	Nuclear Safety Research Association (NSRA) International Affairs & Research Department Address: 5-18-7, Minato-ku, Shimbashi, Tokyo, JAPAN 1050004 Tel: +81-3-5470-1983 Fax: +81-3-5470-1991 http://www.nsra.or.jp/int/iard/exchange.html

No.	Question	Answer
42	**1) Program title**	MEXT Nuclear Research Exchange Program (NREP) 2013 Basic Research Field Course "Nuclear Engineering/Nuclear Safety Engineering (Basic)"
	2) Field	☐ A. Radioactive Waste Management ☐ B-1. Radiation/RI Application for Industry ☐ B-2. Radiation/RI Application for Environment ☐ B-3. Radiation/RI Application for Health Care ☐ B-4. Radiation/RI Application for Neutron Application ☐ B-5. Radiation/RI Other than the Above ■ C. Research Reactor ■ D. Nuclear Power Reactor ☐ E-1. Nuclear Safety ■ E-2. Radiation Safety ☐ F. Policy/Planning/Administration ☐ G. Others
	3) Outline of the Program	Participants acquire basic knowledge through the activities such as; ・Introduction to nuclear engineering - Concepts of nuclear fission and power plants ・Introduction to nuclear materials - Basics of nuclear fuels and structural materials ・Introduction to radiation measurement - Concept of radiation detectors and radiation decay ・Basic experiment - Measurement of gamma ray from environmental materials
	4) Method of the Program	Basic lectures and basic research under the guidance
	5) Schedule of the Program	Negotiable
	6) Duration	3 months
	7) Venue	Hachinohe Institute of Technology, Hachinohe, Aomori Pref., Japan
	8) Working Language	English
	9) Application Period	February 29 - March 29, 2013
	10) Eligible Countries	Australia, Bangladesh, China, Indonesia, Kazakhstan, Korea, Malaysia, Mongolia, the Philippines, Sri Lanka, Thaland, Vietnam
	11) Eligible Applicant	(1) Be a researcher of a governmental or public research, educational or medical institute including a university engaged in research and development for the peaceful use of nuclear energy; (Neither a student nor a professor is qualified.) (2) Be a researcher who has graduated from a university or college and who is involved in research activities at the time of application; (3) Be a nuclear researcher who could contribute to building up/strengthening nuclear base/nuclear safety in each country after returning to his/her country; (4) Have sufficient skills in English and/or Japanese in both speaking and writing; (5) In principle, be less than 50 years of age; (6) Be in physically and mentally good health to perform research activities in Japan; (7) Be not accompanied by his/her family.
	12) Capacity	About 20 researchers will be accepted in whole NREP
	13) Host Organization	Nuclear Safety Research Association (NSRA), Japan
	14) Host Country	Japan
	15) Sponsorship	*Transportation (airticket, travel expenses between arival airport and the host organization in Japan) *Daily allowance *Accommodation
	16) Source of funds	Ministry of Education, Culture, Sports, Science and Technology (MEXT), Japan
	17) How to Apply	Please see; http://www.nsra.or.jp/int/iard/exchange.html
	18) Inquiries	Nuclear Safety Research Association (NSRA) International Affairs & Research Department Address: 5-18-7, Minato-ku, Shimbashi, Tokyo, JAPAN 1050004 Tel: +81-3-5470-1983 Fax: +81-3-5470-1991 http://www.nsra.or.jp/int/iard/exchange.html

No.	Question	Answer
43	**1) Program title**	MEXT Nuclear Research Exchange Program (NREP) 2013 Basic Research Field Course "Fuel and Materials Engineering"
	2) Field	☐ A. Radioactive Waste Management
		☐ B-1. Radiation/RI Application for Industry
		☐ B-2. Radiation/RI Application for Environment
		☐ B-3. Radiation/RI Application for Health Care
		☐ B-4. Radiation/RI Application for Neutron Application
		☐ B-5. Radiation/RI Other than the Above
		■ C. Research Reactor
		■ D. Nuclear Power Reactor
		☐ E-1. Nuclear Safety
		☐ E-2. Radiation Safety
		☐ F. Policy/Planning/Administration
		☐ G. Others
	3) Outline of the Program	Participants in this course acquire overall and basic knowledge such as the following items ・Basic Concept of Nuclear Safety ・Plant Transients(Normal and Abnormal Conditions) ・Plant and Core Materials, Core Management, Ageing Management ・Fuel Related Standards, Fuel Material Characteristics, In-core Fuel Behavior ・Fuel Research(Post Irradiation Examination(PIE)) ・Higher Burnup ・Fuel Requrements ・Fuel Fabrication(Pellet, Components, Assembly) ・Fuel Cladding(Requirements, Characteristics,Fabrications), Fuel Transportation ・Storage ・Basic Research(Experiment, Research, etc.)
	4) Method of the Program	Basic lectures and basic research under the guidance
	5) Schedule of the Program	Negotiable
	6) Duration	3~4 months
	7) Venue	Research institute of nuclear engineering, University of Fukui, Tsuruga, Fukui Pref., Japan
	8) Working Language	English
	9) Application Period	February 29 - March 29, 2013
	10) Eligible Countries	Australia, Bangladesh, China, Indonesia, Kazakhstan, Korea, Malaysia, Mongolia, the Philippines, Sri Lanka, Thaland, Vietnam
	11) Eligible Applicant	(1) Be a researcher of a governmental or public research, educational or medical institute including a university engaged in research and development for the peaceful use of nuclear energy; (Neither a student nor a professor is qualified.) (2) Be a researcher who has graduated from a university or college and who is involved in research activities at the time of application; (3) Be a nuclear researcher who could contribute to building up/strengthening nuclear base/nuclear safety in each country after returning to his/her country; (4) Have sufficient skills in English and/or Japanese in both speaking and writing; (5) In principle, be less than 50 years of age; (6) Be in physically and mentally good health to perform research activities in Japan; (7) Be not accompanied by his/her family.
	12) Capacity	About 20 researchers will be accepted in whole NREP
	13) Host Organization	Nuclear Safety Research Association (NSRA), Japan
	14) Host Country	Japan
	15) Sponsorship	*Transportation (airticket, travel expenses between arival airport and the host organization in Japan) *Daily allowance *Accommodation
	16) Source of funds	Ministry of Education, Culture, Sports, Science and Technology (MEXT), Japan
	17) How to Apply	Please see; http://www.nsra.or.jp/int/iard/exchange.html
	18) Inquiries	Nuclear Safety Research Association (NSRA) International Affairs & Research Department Address: 5-18-7, Minato-ku, Shimbashi, Tokyo, JAPAN 1050004 Tel: +81-3-5470-1983 Fax: +81-3-5470-1991 http://www.nsra.or.jp/int/iard/exchange.html

No.	Question	Answer
44	**1) Program title**	MEXT Nuclear Research Exchange Program (NREP) 2013 Basic Research Field Course "Radiation Protection/Radiation Measurement"
	2) Field	☐ A. Radioactive Waste Management ☐ B-1. Radiation/RI Application for Industry ☐ B-2. Radiation/RI Application for Environment ☐ B-3. Radiation/RI Application for Health Care ☐ B-4. Radiation/RI Application for Neutron Application ☐ B-5. Radiation/RI Other than the Above ☐ C. Research Reactor ☐ D. Nuclear Power Reactor ☐ E-1. Nuclear Safety ■ E-2. Radiation Safety ☐ F. Policy/Planning/Administration ☐ G. Others
	3) Outline of the Program	・Radiation Measurements, Dosimetry ・Radionuclide Analysis ・Radiation Safety Management ・Radiation Protection Concept ・Radiation Monitoring etc. ・Basic Research(Experiment, Research, etc.)
	4) Method of the Program	Basic lectures and basic research under the guidance
	5) Schedule of the Program	Negotiable
	6) Duration	3~4 months
	7) Venue	Research institute of nuclear engineering, University of Fukui, Tsuruga, Fukui Pref., Japan, and/or other university
	8) Working Language	English
	9) Application Period	February 29 - March 29, 2013
	10) Eligible Countries	Australia, Bangladesh, China, Indonesia, Kazakhstan, Korea, Malaysia, Mongolia, the Philippines, Sri Lanka, Thaland, Vietnam
	11) Eligible Applicant	(1) Be a researcher of a governmental or public research, educational or medical institute including a university engaged in research and development for the peaceful use of nuclear energy; (Neither a student nor a professor is qualified.) (2) Be a researcher who has graduated from a university or college and who is involved in research activities at the time of application; (3) Be a nuclear researcher who could contribute to building up/strengthening nuclear base/nuclear safety in each country after returning to his/her country; (4) Have sufficient skills in English and/or Japanese in both speaking and writing; (5) In principle, be less than 50 years of age; (6) Be in physically and mentally good health to perform research activities in Japan; (7) Be not accompanied by his/her family.
	12) Capacity	About 20 researchers will be accepted in whole NREP
	13) Host Organization	Nuclear Safety Research Association (NSRA), Japan
	14) Host Country	Japan
	15) Sponsorship	*Transportation (airticket, travel expenses between arival airport and the host organization in Japan) *Daily allowance *Accommodation
	16) Source of funds	Ministry of Education, Culture, Sports, Science and Technology (MEXT), Japan
	17) How to Apply	Please see; http://www.nsra.or.jp/int/iard/exchange.html
	18) Inquiries	Nuclear Safety Research Association (NSRA) International Affairs & Research Department Address: 5-18-7, Minato-ku, Shimbashi, Tokyo, JAPAN 1050004 Tel: +81-3-5470-1983 Fax: +81-3-5470-1991 http://www.nsra.or.jp/int/iard/exchange.html

No.	Question	Answer
45	**1) Program title**	MEXT Nuclear Research Exchange Program (NREP) 2013 Basic Research Field Course "Radioactive Waste Management"
	2) Field	■ A. Radioactive Waste Management
		B-1. Radiation/RI Application for Industry
		B-2. Radiation/RI Application for Environment
		B-3. Radiation/RI Application for Health Care
		B-4. Radiation/RI Application for Neutron Application
		B-5. Radiation/RI Other than the Above
		C. Research Reactor
		D. Nuclear Power Reactor
		E-1. Nuclear Safety
		E-2. Radiation Safety
		F. Policy/Planning/Administration
		G. Others
	3) Outline of the Program	・Radioactive Waste Treatment ・Disposal (Classification, Generation, International Standards, etc.) ・LLW Treatment・Disposal ・HLW Treatment・Disposal, Safety Evaluation of Radioactive Waste Disposal ・Spent Fuel Management, Decommissioning, Clearance etc. ・Basic Research(Experiment, Research, etc.)
	4) Method of the Program	Basic lectures and basic research under the guidance
	5) Schedule of the Program	Negotiable
	6) Duration	3~4 months
	7) Venue	Research institute of nuclear engineering, University of Fukui, Tsuruga, Fukui Pref., Japan, and/or other university
	8) Working Language	English
	9) Application Period	February 29 - March 29, 2013
	10) Eligible Countries	Australia, Bangladesh, China, Indonesia, Kazakhstan, Korea, Malaysia, Mongolia, the Philippines, Sri Lanka, Thaland, Vietnam
	11) Eligible Applicant	(1) Be a researcher of a governmental or public research, educational or medical institute including a university engaged in research and development for the peaceful use of nuclear energy; (Neither a student nor a professor is qualified.) (2) Be a researcher who has graduated from a university or college and who is involved in research activities at the time of application; (3) Be a nuclear researcher who could contribute to building up/strengthening nuclear base/nuclear safety in each country after returning to his/her country; (4) Have sufficient skills in English and/or Japanese in both speaking and writing; (5) In principle, be less than 50 years of age; (6) Be in physically and mentally good health to perform research activities in Japan; (7) Be not accompanied by his/her family.
	12) Capacity	About 20 researchers will be accepted in whole NREP
	13) Host Organization	Nuclear Safety Research Association (NSRA), Japan
	14) Host Country	Japan
	15) Sponsorship	*Transportation (airticket, travel expenses between arival airport and the host organization in Japan) *Daily allowance *Accommodation
	16) Source of funds	Ministry of Education, Culture, Sports, Science and Technology (MEXT), Japan
	17) How to Apply	Please see; http://www.nsra.or.jp/int/iard/exchange.html
	18) Inquiries	Nuclear Safety Research Association (NSRA) International Affairs & Research Department Address: 5-18-7, Minato-ku, Shimbashi, Tokyo, JAPAN 1050004 Tel: +81-3-5470-1983 Fax: +81-3-5470-1991 http://www.nsra.or.jp/int/iard/exchange.html

No.	Question	Answer
46	**1) Program title**	MEXT Nuclear Research Exchange Program (NREP) 2013 Basic Research Field Course "Public Acceptance"
	2) Field	☐ A. Radioactive Waste Management ☐ B-1. Radiation/RI Application for Industry ☐ B-2. Radiation/RI Application for Environment ☐ B-3. Radiation/RI Application for Health Care ☐ B-4. Radiation/RI Application for Neutron Application ☐ B-5. Radiation/RI Other than the Above ☐ C. Research Reactor ☐ D. Nuclear Power Reactor ☐ E-1. Nuclear Safety ☐ E-2. Radiation Safety ■ F. Policy/Planning/Administration ☐ G. Others
	3) Outline of the Program	Participants in this course get on-the-job training(OJT) such as following items ・Knowledge and skills on conducting public information ・Publid Relations ・Planning public relations stragety, evaluation of its activities ・Skill of presentation and press conference
	4) Method of the Program	Basic lectures and basic research under the guidance
	5) Schedule of the Program	Negotiable
	6) Duration	1~3 months
	7) Venue	Public Relations Department, Japan Atomic Energy Agency (JAEA), Tokai, Ibaraki Pref., Japan
	8) Working Language	English
	9) Application Period	February 29 - March 29, 2013
	10) Eligible Countries	Australia, Bangladesh, China, Indonesia, Kazakhstan, Korea, Malaysia, Mongolia, the Philippines, Sri Lanka, Thaland, Vietnam
	11) Eligible Applicant	(1) Be a researcher of a governmental or public research, educational or medical institute including a university engaged in research and development for the peaceful use of nuclear energy; (Neither a student nor a professor is qualified.) (2) Be a researcher who has graduated from a university or college and who is involved in research activities at the time of application; (3) Be a nuclear researcher who could contribute to building up/strengthening nuclear base/nuclear safety in each country after returning to his/her country; (4) Have sufficient skills in English and/or Japanese in both speaking and writing; (5) In principle, be less than 50 years of age; (6) Be in physically and mentally good health to perform research activities in Japan; (7) Be not accompanied by his/her family.
	12) Capacity	About 20 researchers will be accepted in whole NREP
	13) Host Organization	Nuclear Safety Research Association (NSRA), Japan
	14) Host Country	Japan
	15) Sponsorship	*Transportation (airticket, travel expenses between arival airport and the host organization in Japan) *Daily allowance *Accommodation
	16) Source of funds	Ministry of Education, Culture, Sports, Science and Technology (MEXT), Japan
	17) How to Apply	Please see; http://www.nsra.or.jp/int/iard/exchange.html
	18) Inquiries	Nuclear Safety Research Association (NSRA) International Affairs & Research Department Address: 5-18-7, Minato-ku, Shimbashi, Tokyo, JAPAN 1050004 Tel: +81-3-5470-1983 Fax: +81-3-5470-1991 http://www.nsra.or.jp/int/iard/exchange.html

No.	Question	Answer
47	**1) Program title**	Atomic Energy Reserchers and Reserch Students Acceptance Program FY2013
	2) Field	☑ A. Radioactive Waste Management
		☑ B-1. Radiation/RI Application for Industry
		☑ B-2. Radiation/RI Application for Environment
		☑ B-3. Radiation/RI Application for Health Care
		☑ B-4. Radiation/RI Application for Neutron Application
		☑ B-5. Radiation/RI Other than the Above
		☑ C. Research Reactor
		☑ D. Nuclear Power Reactor
		☑ E-1. Nuclear Safety
		☑ E-2. Radiation Safety
		☑ F. Policy/Planning/Administration
		☑ G. Others
	3) Outline of the Program	The Atomic Energy Researchers and Research Students Acceptance Program is a program to accept overseas researchers and research students, conducted by the Fukui International Human Resources Development Center (FIHRDC), the Wakasa Wan Energy Research Center (WERC). This program is designed to invite overseas researchers and research students wanting to do research on improvements in nuclear safety and application technology, and to support their research at universities, company, institutes, and so on in Fukui. FIHRDC will support their research by providing services, including flight and accommodation arrangements at the acceptance of researchers and research students as well as by paying related costs.
	4) Method of the Program	Cooperative Research
	5) Schedule of the Program	From 1st September untill 31st March (next year)
	6) Duration	3 ~ 6 months (defferent up to the research)
	7) Venue	Some reserch institutes of Fukui Prefecture, Japan
	8) Working Language	English or Japanese
	9) Application Period	Almost from March to May (every year)
	10) Eligible Countries	Any country
	11) Eligible Applicant	<Researchers> (1) A person who has conducted related research over several years at institute, university and so on in his/her home country after finishing his/her doctoral course. Or a person who has a proven research performance and can be recognized as being equivalent to or greater than the above even if he/she has not finished any doctoral course. (2) A person who engages in research regarding nuclear safety and application technology in his/her home country. (3) A person who can contribute to nuclear safety and application technology in his/her home country after his/her return. (4) A person who has sufficient language ability (in English or Japanese) so as not to pose a problem in research activities. (5) A person who is in sufficient good health and spirits so as not to pose a problem in research activities in Japan. <Reserch stutends> (1) A master's or doctoral student in his/her home country. Or a person who can be recognized as being equivalent to the above. (2) A person who engages in research regarding nuclear safety and application technology in his/her home country. (3) A person who can contribute to nuclear safety and application technology in his/her home country after his/her return. (4) A person who has sufficient language ability (in English or Japanese) so as not to pose a problem in research activities. (5) A person who is in sufficient good health and spirits so as not to pose a problem in research activities in Japan.
	12) Capacity	A few persons
	13) Host Organization	The Wakasa Wan Energy Reserch Center
	14) Host Country	Japan
	15) Sponsorship	Travel cost, Accommodation fees, Academic fees, Insurance
	16) Source of funds	Fukui prefectural government
	17) How to Apply	WERC will send you the application guide, so that contact us!! http://www.werc.or.jp/werc_english/introduction.html atanaka(atmark)werc.or.jp (Please replace "(atmark)" with "@")
	18) Inquiries	Person in charge: Mr. Akira Tanaka email: atanaka(atmark)werc.or.jp (Please replace "(atmark)" with "@") phone: +81 770 24 7272

No.	Question	Answer
48	**1) Program title**	Reactor Plant Safety Course
	2) Field	☑ A. Radioactive Waste Management
		☐ B-1. Radiation/RI Application for Industry
		☐ B-2. Radiation/RI Application for Environment
		☐ B-3. Radiation/RI Application for Health Care
		☐ B-4. Radiation/RI Application for Neutron Application
		☐ B-5. Radiation/RI Other than the Above
		☑ C. Research Reactor
		☑ D. Nuclear Power Reactor
		☑ E-1. Nuclear Safety
		☑ E-2. Radiation Safety
		☑ F. Policy/Planning/Administration
		☑ G. Others
	3) Outline of the Program	The Course provides both the theoretical knowledge and the practical skills in plant safety technology. It covers the introduction of nuclear reactor, radiation measurement and radiation protection. The target participant is nuclear engineer and researcher from nuclear related organizations, who will be able to disseminate the plant safety technology for schools and local citizens in Asian countries, and develop its own program to meet their educational needs.
	4) Method of the Program	Lecture, Technical visit, Discussion
	5) Schedule of the Program	Almost October to December
	6) Duration	4 weeks
	7) Venue	The Wakasa Wan Energy Research Center, Fukui Prefecture, Japan
	8) Working Language	English
	9) Application Period	Almost from May to July (every year)
	10) Eligible Countries	Bangradesh, Chaina, Kazakhstan, Indonesia, Malaysia, Mongolia, Philipine, Slyranka, Thailand, Vietnam
	11) Eligible Applicant	1) Applicants are desirable to be engineer or researcher from governments and nuclear related organizations, and have at least a few years of work experience. 2) Applicants are not required advanced knowledge of nuclear energy, yet a basic knowledge of its filed is recommended. 3) Preference will be given to applicants who have no participation in past courses at WERC or JAEA sponsored by MEXT. 4) Applicants should be under the age of 45. 5) Applicants are expected to disseminate the basic knowledge of radiation for schools and local citizens in each country, and develop its own program to meet the national educational needs. 6) Applicants should be nominated by the norminating orgaization. 7) Applicants have sufficient knowledge of English language in order to benefit from and participate in all course activities including group discussion, presentation and communication
	12) Capacity	10 persons
	13) Host Organization	The Wakasa Wan Energy Reserch Center
	14) Host Country	Japan
	15) Sponsorship	Travel cost, Allowances
	16) Source of funds	Japan Atomic Energy Agency
	17) How to Apply	WERC will send you the application guide, so that contact us!! You need to be nominated by the norminating organization. http://www.werc.or.jp/werc_english/introduction.html htada(atmark)werc.or.jp (Please replace "(atmark)" with "@")
	18) Inquiries	Person in charge: Mr. Hidehumi Tada email: htada(atmark)werc.or.jp (Please replace "(atmark)" with "@") phone: +81 770 24 7272

No.	Question	Answer
49	**1) Program title**	Nuclear Energy Administration Course
	2) Field	☑ A. Radioactive Waste Management
		☐ B-1. Radiation/RI Application for Industry
		☐ B-2. Radiation/RI Application for Environment
		☐ B-3. Radiation/RI Application for Health Care
		☐ B-4. Radiation/RI Application for Neutron Application
		☐ B-5. Radiation/RI Other than the Above
		☐ C. Research Reactor
		☑ D. Nuclear Power Reactor
		☑ E-1. Nuclear Safety
		☑ E-2. Radiation Safety
		☑ F. Policy/Planning/Administration
		☑ G. Others
	3) Outline of the Program	The Course provides both the theoretical knowledge and the practical skills in plant safety technology. It covers the introduction of nuclear law and policy, nuclear reactor, radiation measurement, radiation protection. The target participant is official from nuclear related governmental organizations who will be able to disseminate the plant safety technology for schools and local citizens in Asian countries, and develop its own program to meet their educational needs.
	4) Method of the Program	Lecture, Technical visit, Discussion
	5) Schedule of the Program	Almost October to December
	6) Duration	3 weeks
	7) Venue	The Wakasa Wan Energy Research Center, Fukui Prefecture, Japan
	8) Working Language	English
	9) Application Period	Almost from May to July (every year)
	10) Eligible Countries	Bangradesh, Chaina, Kazakhstan, Indonesia, Malaysia, Mongolia, Philipine, Slyranka, Thailand, Vietnam
	11) Eligible Applicant	1) Applicants are desirable to be officials in education, public relations and human resource development from governments and nuclear related organizations, and have at least a few years of work experience. Also, they are desirable to be an administrator who has degree of social science or humanity. 2) Applicants are not required advanced knowledge of nuclear energy, yet a basic knowledge of its filed is recommended. 3) Preference will be given to applicants who have no participation in past courses at WERC or JAEA sponsored by MEXT. 4) Applicants should be under the age of 45. 5) Applicants are expected to disseminate the basic knowledge of radiation for schools and local citizens in each country, and develop its own program to meet the national educational needs. 6) Applicants should be nominated by the norminating orgaization. 7) Applicants have sufficient knowledge of English language in order to benefit from and participate in all course activities including group discussion, presentation and communication.
	12) Capacity	10 persons
	13) Host Organization	The Wakasa Wan Energy Reserch Center
	14) Host Country	Japan
	15) Sponsorship	Travel cost, Allowances
	16) Source of funds	Japan Atomic Energy Agency
	17) How to Apply	WERC will send you the application guide, so that contact us!! You need to be nominated by the norminating organization. http://www.werc.or.jp/werc_english/introduction.html htada(atmark)werc.or.jp (Please replace "(atmark)" with "@")
	18) Inquiries	Person in charge: Mr. Hidehumi Tada email: htada(atmark)werc.or.jp (Please replace "(atmark)" with "@") phone: +81 770 24 7272

No.	Question	Answer
50	**1) Program title**	Regional Training Course on Physical Protection of Nuclear Material and Facilities
	2) Field	☐ A. Radioactive Waste Management
		☐ B-1. Radiation/RI Application for Industry
		☐ B-2. Radiation/RI Application for Environment
		☐ B-3. Radiation/RI Application for Health Care
		☐ B-4. Radiation/RI Application for Neutron Application
		☐ B-5. Radiation/RI Other than the Above
		☐ C. Research Reactor
		☐ D. Nuclear Power Reactor
		☐ E-1. Nuclear Safety
		☐ E-2. Radiation Safety
		☑ F. Policy/Planning/Administration
		☐ G. Others
	3) Outline of the Program	The purpose of the regional training course is to increase awareness of the need for an integrated system of physical protection for facilities and activities involving nuclear material, that would be effective against the threat of radiological sabotage and theft of nuclear, familiarize professionals, involved in the establishment of a physical protection system with current concepts and techniques and increase security awareness in individuals and organizations so that they give to the physical protection issues the attention that is warranted by their significance.
	4) Method of the Program	Training
	5) Schedule of the Program	July 22 to August 2, 2013
	6) Duration	2 weeks
	7) Venue	ISCN, Tokai, Japan
	8) Working Language	English
	9) Application Period	Deadline for nomination: May 31, 2013
	10) Eligible Countries	The training course is open to participants from Australia*, Bangladesh, People's Republic of China*, Indonesia, Jordan, Kazakhstan, Republic of Korea*, Lithuania, Malaysia, Mongolia, Union of Myanmar, Philippines, Singapore*, Thailand, United Arab Emirates*, Cambodia, Laos, Brunei, India, Turkey, Ukraine and Vietnam. *These countries are requested to provide the fares and subsistence allowances of their participants.
	11) Eligible Applicant	The regional training course is intended mainly for individuals who are responsible for preparing regulations and designing and/or assessing physical protection systems and for individuals who are working in the field of the security at nuclear facilities. It is assumed that they will have a basic technical background or some experience in physical protection.
	12) Capacity	30
	13) Host Organization	Integrated Support Center for Nuclear Nonproliferation and Nuclear Security (ISCN), Japan Atomic Energy Agency (JAEA)
	14) Host Country	Japan
	15) Sponsorship	(PLEASE see *note of colum 10) as well.) All the cost covered by JAEA except countries with * marks, which are requested to provide the fares and subsistence allowances of their participants.
	16) Source of funds	National budget
	17) How to Apply	Nominations should be submitted on the nomination form for training courses. Applicants should submit the nomination form to the established official channels (the Ministry of Foreign Affairs or the National Atomic Energy Authority) by deadline. Completed forms should be endorsed by and returned through the established official channels, and must be received by the Embassy of Japan. Nominations received after deadline or applications which have not been routed through one of the aforementioned channels cannot be considered.
	18) Inquiries	ISCN e-mail: iscn-security(atmark)jaea.go.jp (Please replace "(atmark)" with "@")

No.	Question	Answer
51	**1) Program title**	Regional Training Course on the Implementation of Nuclear Security Recommendations on Physical Protection of Nuclear Material and Nuclear Facilities (Nuclear Security Series #13, INFCIRC/225/Rev.5)
	2) Field	☐ A. Radioactive Waste Management
		☐ B-1. Radiation/RI Application for Industry
		☐ B-2. Radiation/RI Application for Environment
		☐ B-3. Radiation/RI Application for Health Care
		☐ B-4. Radiation/RI Application for Neutron Application
		☐ B-5. Radiation/RI Other than the Above
		☐ C. Research Reactor
		☐ D. Nuclear Power Reactor
		☐ E-1. Nuclear Safety
		☐ E-2. Radiation Safety
		☑ F. Policy/Planning/Administration
		☐ G. Others
	3) Outline of the Program	The purpose of the course is to provide participants with a better understanding of IAEA's Nuclear Security Series #13 (INFCIRC/225/Rev.5), so as to assist their countries to strengthen physical protection measures at the relevant facilities and to enhance cooperation of various national authorities in charge of nuclear security functions.
	4) Method of the Program	Training
	5) Schedule of the Program	August 26 to 30, 2013
	6) Duration	5 days
	7) Venue	ISCN, Tokai, Japan
	8) Working Language	English
	9) Application Period	Deadline for nomination: July 1, 2013
	10) Eligible Countries	Australia, Bangladesh, China, India, Indonesia, Islamic Republic of Iran, Israel, Japan, Republic of Korea, Malaysia, Pakistan, Philippines, Syrian Arabic Republic, Thailand, Vietnam
	11) Eligible Applicant	The course is intended mainly for individuals who are responsible for preparing regulations and designing and/or assessing physical protection systems and for individuals who are working in the field of the security at nuclear facilities. It is assumed that they will have a basic technical background or some experience in physical protection.
	12) Capacity	20
	13) Host Organization	Integrated Support Center for Nuclear Nonproliferation and Nuclear Security (ISCN), Japan Atomic Energy Agency (JAEA) Co-organized by IAEA
	14) Host Country	Japan
	15) Sponsorship	Please conact IAEA.
	16) Source of funds	National budget
	17) How to Apply	Nominations should be submitted to IAEA through the established official channels (Ministry of Foreign Affairs, National Atomic Energy Authority or the office of the United Nations Development Programme). Applications sent directly by individuals or by private institutions will not be considered.
	18) Inquiries	IAEA Training Coordinator: Ms. Aniko Makai e-mail/ A.Makai(atmark)iaea.org (Please replace "(atmark)" with "@")

No.	Question	Answer
52	**1) Program title**	International Training Course on State Systems of Accounting for and Control of Nuclear Material
	2) Field	☐ A. Radioactive Waste Management
		☐ B-1. Radiation/RI Application for Industry
		☐ B-2. Radiation/RI Application for Environment
		☐ B-3. Radiation/RI Application for Health Care
		☐ B-4. Radiation/RI Application for Neutron Application
		☐ B-5. Radiation/RI Other than the Above
		☐ C. Research Reactor
		☐ D. Nuclear Power Reactor
		☐ E-1. Nuclear Safety
		☐ E-2. Radiation Safety
		☑ F. Policy/Planning/Administration
		☐ G. Others
	3) Outline of the Program	The training course consists of lectures, facility visits, demonstrations of safeguards equipment used for NDA and C/S and practical exercises. It also includes a tour to Hiroshima Memorial and Museum. The training course includes modules which will cover the following topics: • IAEA Safeguards (goal, objectives, safeguards approaches and evaluation process) • Nuclear Material Accounting and Control (NMAC), Preparation and Submission to the IAEA of NMA Reports, State and Facility Level Considerations • Preparation and submission to the IAEA of Additional Protocol (AP) declarations • Preparation and Submission of Facility Design Information • The IAEA's Verification Strategies and Techniques • Establishment and Maintenance of an effective State System of Accounting for and Control of Nuclear Materials
	4) Method of the Program	Taining consists of lectures, facility visits, demonstrations of safeguards equipment and practical exercises
	5) Schedule of the Program	25 November - 6 December, 2013
	6) Duration	2 weeks
	7) Venue	Integrated Support Center fo Nuclear Nonproliferation and Nuclear Security (ISCN) of Japan Atomic Energy Agency(JAEA) 3-1-1 Funaishikawaekihigashi, Tokai-mura, Naka-gun, Ibaraki 319-1118, Japan
	8) Working Language	English
	9) Application Period	Deadline for nomination: 31 September, 2013
	10) Eligible Countries	Australia, Bangladesh, Belarus, Brunei Darussalam, Cambodia, China, India, Indonesia, Japan, Jordan, Korea, Kyrgys, Laos, Malaysia, Moldova, Mongolia, Myanmar, Nepal, New Zealand, Philippines, Singapore, Thailand, Turkey, Ukraine, UAE, Uzbekistan, Viet Nam
	11) Eligible Applicant	The course is intended mainly for members of SSAC who are directly responsible for SG implementation as a regulator in the government and/or as an operator at a facility/LOF/other relevant installation.
	12) Capacity	25
	13) Host Organization	Integrated Support Center for Nuclear Nonproliferation and Nuclear Security (ISCN), Japan Atomic Energy Agency (JAEA)
	14) Host Country	Japan
	15) Sponsorship	JAEA provides participants with the following financial support (except those from Australia, China, Japan, Korea, New Zealand, and Singapore): 1. Round trip economy class air-ticket between the international airport designated for departure by JAEA and the New Tokyo International Airport at Narita. 2. Subsistence allowances for the duration of participation in the training course at JAEA. 3. Expenses for a round trip between Narita IAP and accommodation place. 4. Expenses for commuting between accommodation and the training venue. 5. Expenses for the Hiroshima tour. Note: Participants may be charged for cancellation fees in the case of their absence without JAEA's agreement after an air ticket has been issued.
	16) Source of funds	National budget
	17) How to Apply	Nominations should be submitted on the designated nomination form for the training course with the signature of nominees' supervisor. To avoid misreading handwritten forms, submission as an electric file is preferable. A nomination form in MS Word format is available upon request to JAEA's secretariat by email (iscn_training@jaea.go.jp). The nomination forms received after the end of September 2013 or the applications sent directly by individuals may be considered unacceptable.
	18) Inquiries	Mr.Kuribayashi Tel +81-29-282-1133-40271 e-mail: iscn_training(atmark)jaea.go.jp (Please replace "(atmark)" with "@")

Malaysia-Programs

Program No.	Question	Answer
1	**1) Program title**	Intensive Course in Nuclear Engineering
	2) Field	☑ A. Radioactive Waste Management ☑ B-1. Radiation/RI Application for Industry ☐ B-2. Radiation/RI Application for Environment ☐ B-3. Radiation/RI Application for Health Care ☑ B-4. Radiation/RI Application for Neutron Application ☐ B-5. Radiation/RI Other than the Above ☑ C. Research Reactor ☑ D. Nuclear Power Reactor ☑ E-1. Nuclear Safety ☑ E-2. Radiation Safety ☑ F. Policy/Planning/Administration ☐ G. Others
	3) Outline of the Program	At the end of the program the participants are able to design the curricula and provide lecture materials for selected topics in nuclear science and engineering
	4) Method of the Program	Weekly seminar for each module
	5) Schedule of the Program	During end of semester break - end of September, early February and end of April starting from September 2013
	6) Duration	One week per module
	7) Venue	Residence Hotel, UNITEN
	8) Working Language	English
	9) Application Period	One month before each module
	10) Eligible Countries	UNITEN Lecturers
	11) Eligible Applicant	Minimum masters degree in nuclear science/engineering, physics, mechanical engineering or electrical engineering
	12) Capacity	10 participants per session
	13) Host Organization	UNITEN
	14) Host Country	Malaysia
	15) Sponsorship	Hospitality and airfares for trainers from IAEA
	16) Source of funds	IAEA
	17) How to Apply	NA
	18) Inquiries	NA

Philippine-Programs

Program No.	Question	Answer	
1	**1) Program title**	Safety in the Use of Nuclear Equipment and Devices	
	2) Field		A. Radioactive Waste Management
			B-1. Radiation/RI Application for Industry
			B-2. Radiation/RI Application for Environment
			B-3. Radiation/RI Application for Health Care
			B-4. Radiation/RI Application for Neutron Application
			B-5. Radiation/RI Other than the Above
			C. Research Reactor
			D. Nuclear Power Reactor
			E-1. Nuclear Safety
		■	E-2. Radiation Safety
			F. Policy/Planning/Administration
			G. Others
	3) Outline of the Program	Training on safe handling of equipment and devices with installed radioactive source(s)	
	4) Method of the Program	Training	
	5) Schedule of the Program	TBD	
	6) Duration	5 days	
	7) Venue	Philippine Nuclear Research Institute (PNRI)	
	8) Working Language	English	
	9) Application Period	2 months prior to start of training course	
	10) Eligible Countries	Australia, Bangladesh, China, Indonesia, Japan, Kazakhstan, Korea, Malaysia, Monglia, Thailand, Vietnam	
	11) Eligible Applicant	Personnel eligible to operate equipment	
	12) Capacity	Minimum of 10, Maximum of 30	
	13) Host Organization	Philippine Nuclear Research Institute (PNRI)	
	14) Host Country	Philippines	
	15) Sponsorship	Waiver of training fee	
	16) Source of funds	PNRI Funds	
	17) How to Apply	http://www.pnri.dost.gov.ph	
	18) Inquiries	The Course Coordinator Nuclear Training Center Philippine Nuclear Research Institute, Commonwealth Avenue, Diliman, Quezon City, 1104, Philippines	

Program No.	Question	Answer	
2	**1) Program title**	Radiation Safety Course for Industrial Radiographers	
	2) Field		A. Radioactive Waste Management
			B-1. Radiation/RI Application for Industry
			B-2. Radiation/RI Application for Environment
			B-3. Radiation/RI Application for Health Care
			B-4. Radiation/RI Application for Neutron Application
			B-5. Radiation/RI Other than the Above
			C. Research Reactor
			D. Nuclear Power Reactor
			E-1. Nuclear Safety
		■	E-2. Radiation Safety
			F. Policy/Planning/Administration
			G. Others
	3) Outline of the Program	Training on radiation protection aspects and practices in industrial radiography	
	4) Method of the Program	Training	
	5) Schedule of the Program	TBD	
	6) Duration	10 days	
	7) Venue	PNRI	
	8) Working Language	English	
	9) Application Period	2 months prior to start of training course	
	10) Eligible Countries	Australia, Bangladesh, China, Indonesia, Japan, Kazakhstan, Korea, Malaysia, Monglia, Thailand, Vietnam	
	11) Eligible Applicant	Personnel must have successfully completed the course for a qualified radiographe	
	12) Capacity	Minimum of 10, Maximum of 30	
	13) Host Organization	PNRI	
	14) Host Country	Philippines	
	15) Sponsorship	Waiver of training fee	
	16) Source of funds	PNRI Funds	
	17) How to Apply	http://www.pnri.dost.gov.ph	
	18) Inquiries	The Course Coordinator Nuclear Training Center Philippine Nuclear Research Institute, Commonwealth Avenue, Diliman, Quezon City, 1104, Philippines	

Program No.	Question	Answer	
3	**1) Program title**	Radioisotope Techniques Training Course (Medical)	
	2) Field		A. Radioactive Waste Management
			B-1. Radiation/RI Application for Industry
			B-2. Radiation/RI Application for Environment
		■	B-3. Radiation/RI Application for Health Care
			B-4. Radiation/RI Application for Neutron Application
			B-5. Radiation/RI Other than the Above
			C. Research Reactor
			D. Nuclear Power Reactor
			E-1. Nuclear Safety
			E-2. Radiation Safety
			F. Policy/Planning/Administration
			G. Others
	3) Outline of the Program	Advantageous applications of of nuclear energy in the medical field	
	4) Method of the Program	Training	
	5) Schedule of the Program	TBD	
	6) Duration	4 weeks	
	7) Venue	Philippine Nuclear Research Institute (PNRI)	
	8) Working Language	English	
	9) Application Period	2 months prior to start of training course	
	10) Eligible Countries	Australia, Bangladesh, China, Indonesia, Japan, Kazakhstan, Korea, Malaysia, Monglia, Thailand, Vietnam	
	11) Eligible Applicant	Holders of degree in medicine or physical sciences	
	12) Capacity	Minimum of 10, Maximum of 30	
	13) Host Organization	PNRI	
	14) Host Country	Philippines	
	15) Sponsorship	Waiver of training fee	
	16) Source of funds	PNRI Funds	
	17) How to Apply	http://www.pnri.dost.gov.ph	
	18) Inquiries	The Course Coordinator Nuclear Training Center Philippine Nuclear Research Institute, Commonwealth Avenue, Diliman, Quezon City, 1104, Philippines	

Program No.	Question	Answer	
4	**1) Program title**	Seminar in Nuclear Science for High School Science Teachers	
	2) Field		A. Radioactive Waste Management
			B-1. Radiation/RI Application for Industry
			B-2. Radiation/RI Application for Environment
			B-3. Radiation/RI Application for Health Care
			B-4. Radiation/RI Application for Neutron Application
		■	B-5. Radiation/RI Other than the Above
			C. Research Reactor
			D. Nuclear Power Reactor
			E-1. Nuclear Safety
			E-2. Radiation Safety
			F. Policy/Planning/Administration
			G. Others
	3) Outline of the Program	Knowledge of the fundamentals of nuclear science for use in the high school curriculum	
	4) Method of the Program	Training	
	5) Schedule of the Program	TBD	
	6) Duration	5 weeks	
	7) Venue	Philippine Nuclear Research Institute (PNRI)	
	8) Working Language	English	
	9) Application Period	2 months prior to start of training course	
	10) Eligible Countries	Australia, Bangladesh, China, Indonesia, Japan, Kazakhstan, Korea, Malaysia, Monglia, Thailand, Vietnam	
	11) Eligible Applicant	Holders of a degree in education or physical sciences	
	12) Capacity	Minimum of 10, Maximum of 15	
	13) Host Organization	PNRI	
	14) Host Country	Philippines	
	15) Sponsorship	Waiver of training fee	
	16) Source of funds	PNRI Funds	
	17) How to Apply	http://www.pnri.dost.gov.ph	
	18) Inquiries	The Course Coordinator Nuclear Training Center Philippine Nuclear Research Institute, Commonwealth Avenue, Diliman, Quezon City, 1104, Philippines	

Program No.	Question	Answer	
5	**1) Program title**	Course on Nuclear Technology for University and College Faculty	
	2) Field		A. Radioactive Waste Management
			B-1. Radiation/RI Application for Industry
			B-2. Radiation/RI Application for Environment
			B-3. Radiation/RI Application for Health Care
			B-4. Radiation/RI Application for Neutron Application
		■	B-5. Radiation/RI Other than the Above
			C. Research Reactor
			D. Nuclear Power Reactor
			E-1. Nuclear Safety
			E-2. Radiation Safety
			F. Policy/Planning/Administration
			G. Others
	3) Outline of the Program	Intensive training on the fundamentals of nuclear science and technology for university and college levels	
	4) Method of the Program	Training	
	5) Schedule of the Program	TBD	
	6) Duration	5 weeks	
	7) Venue	Philippine Nuclear Research Institute (PNRI)	
	8) Working Language	English	
	9) Application Period	2 months prior to start of training course	
	10) Eligible Countries	Australia, Bangladesh, China, Indonesia, Japan, Kazakhstan, Korea, Malaysia, Monglia, Thailand, Vietnam	
	11) Eligible Applicant	Holders of a degree in engineering or physical sciences	
	12) Capacity	Minimum of 10, Maximum of 15	
	13) Host Organization	PNRI	
	14) Host Country	Philippines	
	15) Sponsorship	Waiver of training fee	
	16) Source of funds	PNRI Funds	
	17) How to Apply	http://www.pnri.dost.gov.ph	
	18) Inquiries	The Course Coordinator Nuclear Training Center Philippine Nuclear Research Institute, Commonwealth Avenue, Diliman, Quezon City, 1104, Philippines	

Program No.	Question	Answer	
6	**1) Program title**	NDT Course on Radiography (Level 2)	
	2) Field		A. Radioactive Waste Management
		■	B-1. Radiation/RI Application for Industry
			B-2. Radiation/RI Application for Environment
			B-3. Radiation/RI Application for Health Care
			B-4. Radiation/RI Application for Neutron Application
			B-5. Radiation/RI Other than the Above
			C. Research Reactor
			D. Nuclear Power Reactor
			E-1. Nuclear Safety
			E-2. Radiation Safety
			F. Policy/Planning/Administration
			G. Others
	3) Outline of the Program	Practice of NDT, specifically on the method of radiography	
	4) Method of the Program	Training	
	5) Schedule of the Program	TBD	
	6) Duration	10 days	
	7) Venue	Philippine Nuclear Research Institute (PNRI)	
	8) Working Language	English	
	9) Application Period	2 months prior to start of training course	
	10) Eligible Countries	Australia, Bangladesh, China, Indonesia, Japan, Kazakhstan, Korea, Malaysia, Monglia, Thailand, Vietnam	
	11) Eligible Applicant	Individuals who have completed at least two years of college education	
	12) Capacity	Maximum of 2	
	13) Host Organization	PNRI / Philippine Society for Nondestructive Testing (PSNT)	
	14) Host Country	Philippines	
	15) Sponsorship	Waiver of training fee	
	16) Source of funds	PNRI Funds	
	17) How to Apply	http://www.pnri.dost.gov.ph	
	18) Inquiries	The Course Coordinator Nuclear Training Center Philippine Nuclear Research Institute, Commonwealth Avenue, Diliman, Quezon City, 1104, Philippines	

Program No.	Question	Answer	
7	**1) Program title**	NDT Course on Ultrasonics (Level 2)	
	2) Field		A. Radioactive Waste Management
		■	B-1. Radiation/RI Application for Industry
			B-2. Radiation/RI Application for Environment
			B-3. Radiation/RI Application for Health Care
			B-4. Radiation/RI Application for Neutron Application
			B-5. Radiation/RI Other than the Above
			C. Research Reactor
			D. Nuclear Power Reactor
			E-1. Nuclear Safety
			E-2. Radiation Safety
			F. Policy/Planning/Administration
			G. Others
	3) Outline of the Program	Practice of NDT, specifically on the method of ultrasonics	
	4) Method of the Program	Training	
	5) Schedule of the Program	TBD	
	6) Duration	10 days	
	7) Venue	Philippine Nuclear Research Institute (PNRI)	
	8) Working Language	English	
	9) Application Period	2 months prior to start of training course	
	10) Eligible Countries	Australia, Bangladesh, China, Indonesia, Japan, Kazakhstan, Korea, Malaysia, Monglia, Thailand, Vietnam	
	11) Eligible Applicant	Individuals who have completed at least two years of college education	
	12) Capacity	Maximum of 2	
	13) Host Organization	PNRI/Philippines Society of Non-Destructive Testing (PSNT)	
	14) Host Country	Philippines	
	15) Sponsorship	Waiver of training fee	
	16) Source of funds	PNRI Funds	
	17) How to Apply	http://www.pnri.dost.gov.ph	
	18) Inquiries	he Course Coordinator Nuclear Training Center Philippine Nuclear Research Institute, Commonwealth Avenue, Diliman, Quezon City, 1104, Philippines	

Program No.	Question	Answer	
8	**1) Program title**	NDT Course on Eddy Current Testing (Level 2)	
	2) Field		A. Radioactive Waste Management
		■	B-1. Radiation/RI Application for Industry
			B-2. Radiation/RI Application for Environment
			B-3. Radiation/RI Application for Health Care
			B-4. Radiation/RI Application for Neutron Application
			B-5. Radiation/RI Other than the Above
			C. Research Reactor
			D. Nuclear Power Reactor
			E-1. Nuclear Safety
			E-2. Radiation Safety
			F. Policy/Planning/Administration
			G. Others
	3) Outline of the Program	Practice of NDT, specifically on the method of eddy current testing	
	4) Method of the Program	Training	
	5) Schedule of the Program	TBD	
	6) Duration	10 days	
	7) Venue	Philippine Nuclear Research Institute (PNRI)	
	8) Working Language	English	
	9) Application Period	2 months prior to start of training course	
	10) Eligible Countries	Australia, Bangladesh, China, Indonesia, Japan, Kazakhstan, Korea, Malaysia, Monglia, Thailand, Vietnam	
	11) Eligible Applicant	Individuals who have completed at least two years of college education	
	12) Capacity	Maximum of 2	
	13) Host Organization	PNRI/Philippines Society of Non-Destructive Testing (PSNT)	
	14) Host Country	Philippines	
	15) Sponsorship	Waiver of training fee	
	16) Source of funds	PNRI	
	17) How to Apply	http://www.pnri.dost.gov.ph	
	18) Inquiries	The Course Coordinator Nuclear Training Center Philippine Nuclear Research Institute, Commonwealth Avenue, Diliman, Quezon City, 1104, Philippines	

Program No.	Question	Answer	
9	**1) Program title**	NDT Course on Surface Methods (Level 2)	
	2) Field		A. Radioactive Waste Management
		■	B-1. Radiation/RI Application for Industry
			B-2. Radiation/RI Application for Environment
			B-3. Radiation/RI Application for Health Care
			B-4. Radiation/RI Application for Neutron Application
			B-5. Radiation/RI Other than the Above
			C. Research Reactor
			D. Nuclear Power Reactor
			E-1. Nuclear Safety
			E-2. Radiation Safety
			F. Policy/Planning/Administration
			G. Others
	3) Outline of the Program	Practice of NDT, specifically on the methods of liquid penetrant testing and magnetic particle testing	
	4) Method of the Program	Training	
	5) Schedule of the Program	TBD	
	6) Duration	10 days	
	7) Venue	Philippine Nuclear Research Institute (PNRI)	
	8) Working Language	English	
	9) Application Period	2 months prior to start of training course	
	10) Eligible Countries	Australia, Bangladesh, China, Indonesia, Japan, Kazakhstan, Korea, Malaysia, Monglia, Thailand, Vietnam	
	11) Eligible Applicant	High school graduate	
	12) Capacity	Maximum of 2	
	13) Host Organization	PNRI/Philippines Society of Non-Destructive Testing (PSNT)	
	14) Host Country	Philippines	
	15) Sponsorship	Waiver of training fee	
	16) Source of funds	PNRI	
	17) How to Apply	http://www.pnri.dost.gov.ph	
	18) Inquiries	The Course Coordinator Nuclear Training Center Philippine Nuclear Research Institute, Commonwealth Avenue, Diliman, Quezon City, 1104, Philippines	

Thailand-Programs

Program No.	Question	Answer
1	**1) Program title**	Reactor Engineering
	2) Field	☐ A. Radioactive Waste Management ☐ B-1. Radiation/RI Application for Industry ☐ B-2. Radiation/RI Application for Environment ☐ B-3. Radiation/RI Application for Health Care ☐ B-4. Radiation/RI Application for Neutron Application ☐ B-5. Radiation/RI Other than the Above ☐ C. Research Reactor ☑ D. Nuclear Power Reactor ☑ E-1. Nuclear Safety ☐ E-2. Radiation Safety ☐ F. Policy/Planning/Administration ☐ G. Others
	3) Outline of the Program	Provide basic reactor safety, reactor physics, reactor kinetic, nuclear safety, fuel material, reactor control system, thermal hydraulic and severe accidents
	4) Method of the Program	Training
	5) Schedule of the Program	May, 2014
	6) Duration	2 weeks
	7) Venue	Thailand Institute of Nuclear Technology (TINT)
	8) Working Language	English/Thai
	9) Application Period	March-April 2014
	10) Eligible Countries	Thailand, Malaysia, Indonesia, Vietnam
	11) Eligible Applicant	Researcher of government with BSc in radiation, nuclear and reactor physics, Engineering degree
	12) Capacity	15-20
	13) Host Organization	TINT
	14) Host Country	Thailand
	15) Sponsorship	Trainees should pay for accomodation and airfare ticket but Tuitition waiver
	16) Source of funds	Thailand government
	17) How to Apply	Please contact Dr.Kanokrat Tiyapun Email: kanokrat(atmark)tint.or.th (Please replace "(atmark)" with "@")
	18) Inquiries	Technology Transfer Division Thailand Institute of Nuclear Technology (Public Organization) Tel: 66-2 5967600 ext 3220/ 66-2 4019889 ext 5914/ 66-2 579 8318 fax:66-2 579 0220

Program No.	Question	Answer
2	**1) Program title**	Research Reactor Experiments
	2) Field	☐ A. Radioactive Waste Management ☐ B-1. Radiation/RI Application for Industry ☐ B-2. Radiation/RI Application for Environment ☐ B-3. Radiation/RI Application for Health Care ☐ B-4. Radiation/RI Application for Neutron Application ☐ B-5. Radiation/RI Other than the Above ☑ C. Research Reactor ☐ D. Nuclear Power Reactor ☐ E-1. Nuclear Safety ☐ E-2. Radiation Safety ☐ F. Policy/Planning/Administration ☐ G. Others
	3) Outline of the Program	Basic reactor experiments including neutron flux measurement, rod worth calibration, power calibration, reactivity insertion
	4) Method of the Program	Training, OJT
	5) Schedule of the Program	June, 2014
	6) Duration	1 week
	7) Venue	Thailand Institute of Nuclear Technology (TINT)
	8) Working Language	English/Thai
	9) Application Period	April-May 2014
	10) Eligible Countries	Thailand, Malaysia, Indonesia, Vietnam
	11) Eligible Applicant	Researcher of government with BSc in radiation, nuclear and reactor physics, Engineering degree
	12) Capacity	15-20
	13) Host Organization	TINT
	14) Host Country	Thailand
	15) Sponsorship	Trainees should pay for accomodation and airfare ticket but Tuitition waiver
	16) Source of funds	Thailand government
	17) How to Apply	Please contact Dr.Kanokrat Tiyapun Email: kanokrat(atmark)tint.or.th (Please replace "(atmark)" with "@")
	18) Inquiries	Thailand Institute of Nuclear Technology (Public Organization) Tel: 66-2 5967600 ext 3220/66-2 4019889 ext 5914/ 66-2 579 8318 fax:66-2 579 0220

Program No.	Question	Answer
3	**1) Program title**	Thermal hydraulic
	2) Field	☐ A. Radioactive Waste Management ☐ B-1. Radiation/RI Application for Industry ☐ B-2. Radiation/RI Application for Environment ☐ B-3. Radiation/RI Application for Health Care ☐ B-4. Radiation/RI Application for Neutron Application ☐ B-5. Radiation/RI Other than the Above ☑ C. Research Reactor ☐ D. Nuclear Power Reactor ☑ E-1. Nuclear Safety ☐ E-2. Radiation Safety ☐ F. Policy/Planning/Administration ☐ G. Others
	3) Outline of the Program	Basic thermal hydraulic and advanced thermal hydraulic with computer code calculation such as EUREKA, COOLOD
	4) Method of the Program	Training
	5) Schedule of the Program	Aug, 2014
	6) Duration	1 week
	7) Venue	Thailand Institute of Nuclear Technology (TINT)
	8) Working Language	English/Thai
	9) Application Period	April-June 2014
	10) Eligible Countries	Thailand, Malaysia, Indonesia, Vietnam
	11) Eligible Applicant	Researcher of government with BSc in radiation, nuclear and reactor physics, Engineering degree
	12) Capacity	15-20
	13) Host Organization	TINT
	14) Host Country	Thailand
	15) Sponsorship	Trainees should pay for accomodation and airfare ticket but Tuitition waiver
	16) Source of funds	Thailand government
	17) How to Apply	Please contact Dr.Kanokrat Tiyapun Email: kanokrat(atmark)tint.or.th (Please replace "(atmark)" with "@")
	18) Inquiries	Technology Transfer Division Thailand Institute of Nuclear Technology (Public Organization) Tel: 66-2 5967600 ext 3220 , 66-2 4019889 ext 5914 , 66-2 579 8318 fax:66-2 579 0220

Program No.	Question	Answer
4	**1) Program title**	Basic Radiation Shielding
	2) Field	☐ A. Radioactive Waste Management ☐ B-1. Radiation/RI Application for Industry ☐ B-2. Radiation/RI Application for Environment ☐ B-3. Radiation/RI Application for Health Care ☐ B-4. Radiation/RI Application for Neutron Application ☐ B-5. Radiation/RI Other than the Above ☐ C. Research Reactor ☑ D. Nuclear Power Reactor ☐ E-1. Nuclear Safety ☑ E-2. Radiation Safety ☑ F. Policy/Planning/Administration ☐ G. Others
	3) Outline of the Program	Training for basic radiation interaction with matter, radiation safety, radiation shielding, attenuation effect, material effect and using computer calculation MCNP code
	4) Method of the Program	Training
	5) Schedule of the Program	September, 2014
	6) Duration	1 week
	7) Venue	Thailand Institute of Nuclear Technology (TINT)
	8) Working Language	English/Thai
	9) Application Period	June-July 2014
	10) Eligible Countries	Thailand, Malaysia, Indonesia, Vietnam
	11) Eligible Applicant	Researcher of government with BSc in radiation, nuclear and reactor physics, Engineering degree
	12) Capacity	15-20
	13) Host Organization	TINT
	14) Host Country	Thailand
	15) Sponsorship	Trainees should pay for accomodation and airfare ticket but Tuitition waiver
	16) Source of funds	Thailand government
	17) How to Apply	Please contact Dr.Kanokrat Tiyapun Email: kanokrat(atmark)tint.or.th (Please replace "(atmark)" with "@")
	18) Inquiries	Technology Transfer Division Thailand Institute of Nuclear Technology (Public Organization) Tel: 66-2 5967600 ext 3220 , 66-2 4019889 ext 5914 , 66-2 579 8318 fax:66-2 579 0220

Program No.	Question	Answer
5	**1) Program title**	Radiation Health Physics
	2) Field	A. Radioactive Waste Management ☐ B-1. Radiation/RI Application for Industry ☐ B-2. Radiation/RI Application for Environment ☐ B-3. Radiation/RI Application for Health Care ☐ B-4. Radiation/RI Application for Neutron Application ☐ B-5. Radiation/RI Other than the Above ☐ C. Research Reactor ☐ D. Nuclear Power Reactor ☐ E-1. Nuclear Safety ☐ E-2. Radiation Safety ☑ F. Policy/Planning/Administration ☐ G. Others
	3) Outline of the Program	☐ Introduction to radiation health physics, Internal and External dose calculation, radiation to environment and radiation safety. Using computer code to evaluate total effective dose. RESRAD, HOTSPOT etc.
	4) Method of the Program	Training
	5) Schedule of the Program	May, 2014
	6) Duration	1 week
	7) Venue	Thailand Institute of Nuclear Technology (TINT)
	8) Working Language	English/Thai
	9) Application Period	Jan-Feb 2014
	10) Eligible Countries	Thailand, Malaysia, Indonesia, Vietnam
	11) Eligible Applicant	Researcher of government with BSc in radiation, nuclear and reactor physics, Engineering degree
	12) Capacity	15-20
	13) Host Organization	TINT
	14) Host Country	Thailand
	15) Sponsorship	Trainees should pay for accomodation and airfare ticket but Tuitition waiver
	16) Source of funds	Thailand government
	17) How to Apply	Please contact Dr.Kanokrat Tiyapun Email: kanokrat(atmark)tint.or.th (Please replace "(atmark)" with "@")
	18) Inquiries	Technology Transfer Division Thailand Institute of Nuclear Technology (Public Organization) Tel: 66-2 5967600 ext 3220 , 66-2 4019889 ext 5914 , 66-2 579 8318