No.	Items	Entry Column
1	Program Title	Masters in Engineering Science in Nuclear Engineering
2	Field	A. Radioactive Waste Management
		B. Radiation/RI Application
		C. Reactor
		D. Fuel/Material
		E. Nuclear/Radiation Safety
		F. Policy/ Planning/ Administration
		G. Others
3	Outline of the Program	The aim of the UNSW Nuclear Engineering Masters specialisation stream is to educate and inform engineering
	- Objective	theory behind nuclear engineering techniques, technologies and processes, and provides a stream that allo
	<ul> <li>Method</li> </ul>	traditional engineering disciplines, to prepare themselves for a career in nuclear engineering. The stream aims
	– etc.	embarking on a nuclear engineering career and contributing to the nuclear debate from a knowledgea
		http://www.handbook.unsw.edu.au/postgraduate/plans/2014/ENGGOS8538.html
		The teaching methods include intensive block mode courses, standard weekly-delivered lecture material, a
		taken over two semesters.
		The course can be completed in one to two years depending on entry qualifications
	Schedule and Duration	Two intakes per year. Semester 1 starts at the end of February each year. Semester 2 starts at the end of Ju
		depending on entry qualifications.
5	Venue	Sydney Australia
6	Working Language	English
7	Host Organization	University of New South Wales, Sydney
8	Presence or Absence of	Present Absent
	Sponsorship	
9	Contents of Sponsorship	Modest scholarships available for Australian citizens or permanent residents
10	Eligibility for Participation	• Equivalent of 4-year Engineering Degree in a typical engineering discipline e.g. Electrical, Civil and Mecha
	-Background	Depending on obtaining the appropriate visa for entry to Australia.
	-Career	
	-Nationality, etc.	
11	Capacity	40
12	How to apply	Online, see https://apply.unsw.edu.au/
13	Contact for Inquiries	Professor John Fletcher, john.fletcher(atmark)unsw.edu.au
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ng graduates in the underpinning
ows engineering graduates, from
to produce graduates capable of
ble standpoint. For details, see
nd a substantial Masters project
why each year. Duration: 1.2 years
ily each year. Duration. 1-2 years
anical.

No.	Items	Entry Column
1	Program Title	Master of Nuclear Science
2	Field	A. Radioactive Waste Management
		B. Radiation/RI Application
		C. Reactor
		D. Fuel/Material
		E. Nuclear/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
	- Objective	current issues in nuclear science and technology. Fees apply.
	- Method	Semester one offers Nuclear Fundamentals (PHYS8201), Reactor Science (PHYS8202), Accelerator Scienc
	- etc.	(PHYS8204).
		Semester two offers Nuclear Fuel Cycle (PHYS8205) and Nuclear Measurement (PHYS8206). In semester 2
		Studies course Nuclear Strategy in the Asian Century (STST8026). In both semesters the Special Research F
		research project can be a 6 or 12 point course. Students also can choose other Strategic Studies or Science
		their interests. There is flexibility to focus on the science or the policy aspects of nuclear science
		http://programsandcourses.anu.edu.au/program/MNUCL
4	Schedule and Duration	2-year program. Students are allowed to commence in either semester. Prospective students can apply at any
		For admission see: http://www.anu.edu.au/sas/admission/
5	Venue	Australian National University, Canberra
6	Working Language	English
7	Host Organization	Australian National University (ANU), Canberra
8	Presence or Absence of Sponsorship	Present Absent
9	Contents of Sponsorship	ANU offers a wide range of scholarships to students to assist with the cost of their studies.
		• Eligibility to apply for ANU scholarships varies depending on the specifics of the scholarship and can be of
		are. Specific scholarship application process information is included in the relevant scholarship listing
10	Eligibility for Participation	A Bachelor degree or international equivalent with an average mark of at least 70%.
	-Background	All applicants must meet the University's English Language Admission Requirements for Students.
	-Career	Applicants with a Bachelor Degree or Graduate Certificate in a cognate discipline may be eligible for 24 ur
	-Nationality, etc.	Applicants with a Graduate Diploma or Honours in a cognate discipline may be eligible for 48 units (one ye
		(Cognate disciplines: Engineering, Science).
		Depending on obtaining the appropriate visa for entry to Australia.
11	Capacity	open
12	How to apply	online
		https://student-anu.studylink.com/apply.cfm?ccc=7641&subc=MNUCL&title=Master%20of%20Nuclear%20Sci
13	Contact for Inquiries	Dr Gregory Lane gregory.lane(atmark)anu.edu.au
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renew or extend understanding of the

ce (PHYS8203) and Nuclear Radiation

2, students can also take the Strategic Project (PHYS8207) can be taken. The e Communication courses according to ce and technology. For details see

/ time as offers are made continuously.

categorised by the type of student you

nits (one semester) of credit. rear) of credit.

ience&sslrequired

No	Items	Entry Column
-		
1	Program Title	Radiation Safety Training
2	Field	A. Radioactive Waste Management
		B. Radiation/RI Application
		C. Reactor
		D. Fuel/Material
		E. Nuclear/Radiation Safety
		F. Policy/ Planning/ Administration
		G. Others
3	Outline of the Program	ANSTO's range of radiation safety training courses will provide valuable knowledge and expertise on radiation
	- Objective	Participants on our courses benefit from the unique opportunity to utilise our on-site radiation facilities and
	- Method	experience. For details, see http://www.ansto.gov.au/BusinessServices/RadiationServices/radiationtraining/ind
	- etc.	Courses are suitable for all industry sectors including mining, health care, government, education, univer
		participants in meeting the relevant regulatory licensing and registration requirements.
		If your organisation has unique requirements, a training program can be tailored to your specific needs.
4	Schedule and Duration	Varied, between 1 and 5 days; fo
		http://www.ansto.gov.au/BusinessServices/RadiationServices/Courseenrolmentdatesandcosts/index.htm
5	Venue	Lucas Heights (Sydney), Australia
6	Working Language	English
7	Host Organization	ANSTO
8	Presence or Absence of Sponsorship	Present Absent
9	Contents of Sponsorship	
10	Eligibility for Participation	Depending on course.
	-Background	Depending on obtaining the appropriate visa for entry to Australia and ANSTO site security clearance.
	-Career	
	-Nationality, etc.	
11	Capacity	10-16 people
12	How to apply	email the training coordinator radsafetytraining(atmark)ansto.gov.au or call +61 2 9717 9434.
13	Contact for Inquiries	Further information Email: radsafetytraining(atmark)ansto.gov.au
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No	Items	Entry Column
•	Program Title	Neutron Scattoring Applications
		A Dedicective Weste Management
	Field	A. Radioactive waste management
		B. Radiation/RI Application
		D. Fuel/Material
		E. Nuclear/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 n
	- Objective	undertaken on a wide range of instruments associated with the OPAL research reactor, including: high
	<ul> <li>Method</li> </ul>	reflectometer, thermal 3-axis spectrometer, Laue diffractometer, small-angle neutron scattering, high intensity p
	– etc.	diffractometer, neutron imaging, radiography and tomography. Lectures and hands on practical training.
		In 2015: triple axis, time-of-flight and backscattering instruments, includes a practical sample environment train
4	Schedule and Duration	5 days, normally in second half of year, but longer training can be negotiated depending on needs and colla
		http://www.ansto.gov.au/Events/Eventsandresources/index.htm.
		In 2015: 22-27 Nov. 2015, Inelastic neutron scattering school
		see http://www.ansto.gov.au/Events/Neutronschool/index.htm
5	Venue	Lucas Heights (Sydney)
6	Working Language	English
7	Host Organization	ANSTO
8	Presence or Absence of Sponsorship	Present Absent
9	Contents of Sponsorship	Possibly waive of training fees
10	Eligibility for Participation	Relevant science or engineering degree
	-Background	Depending on obtaining the appropriate visa for entry to Australia and ANSTO site security clearance.
	-Career	
	-Nationality, etc.	
11	Capacity	~ 20 people
12	How to apply	For 2015 school please email: inss2015(atmark)ansto.gov.au
13	Contact for Inquiries	General: Dr Joseph Bevitt, Bragg Institute, ANSTO
		Email: joseph.bevitt(atmark)ansto.gov.au
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neutron scattering. Projects may be gh-resolution powder diffractometer, powder diffractometer, residual stress ining session aboration; check for schools on offer:

No.	Items	Entry Column
1	Program Title	International Training Course on Physical Protection of Nuclear Material and Facilities
2	Field	A. Radioactive Waste Management
		B. Radiation/RI Application
		C. Reactor
		D. Fuel/Material
		E. Nuclear/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 syste
	- Objective	activities involving nuclear material, that would be effective against the threat of radiological sabotage and
	- Method	involved in the establishment of a physical protection system with current concepts and techniques and in
	– etc.	and organizations so that they give to the physical protection issues the attention that is warranted by their
4	Schedule and Duration	October 19 to 30, 2015
5	Venue	Integrated Support Center for Nuclear Nonproliferation and Nuclear Security (ISCN),
		Japan Atomic Energy Agency (JAEA), Tokai, Japan
6	Working Language	English
7	Host Organization	Japan
8	Presence or Absence of Sponsorship	-
9	Contents of Sponsorship	-
10	Eligibility for Participation	The regional training course is intended mainly for individuals who are responsible for preparing regu
	-Background	physical protection systems and for individuals who are working in the field of the security at nuclear facily
	-Career	basic technical background or some experience in physical protection.
	-Nationality, etc.	
11	Capacity	30
12	How to apply	Nominations should be submitted on the nomination form for training courses. Applicants should submit
		official channels (the Ministry of Foreign Affairs or the National Atomic Energy Authority) by deadline. Com
		returned through the established official channels, and must be received by the Embassy of Japan.
		applications which have not been routed through one of the aforementioned channels cannot be considered
13	Contact for Inquiries	-
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em of physical protection for facilities and theft of nuclear, familiarize professionals, ncrease security awareness in individuals ir significance.

ulations and designing and/or assessing ilities. It is assumed that they will have a

it the nomination form to the established npleted forms should be endorsed by and Nominations received after deadline or red.

No.	Items	Entry Column
1	Program Title	Regional Training Course on State Systems of Accounting for and Control of Nuclear Material
2	Field	A. Radioactive Waste Management
		B. Radiation/RI Application
		C. Reactor
		D. Fuel/Material
		E. Nuclear/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
	- Objective	also includes a tour to Hiroshima Memorial and Museum.
	- Method	The training course includes modules which will cover the following topics:
	- etc.	
		· IAEA Safeguards (goal, objectives, safeguards approaches and evaluation process)
		· Nuclear Material Accounting and Control (NMAC), Preparation and Submission to the IAEA of
		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
4	Schedule and Duration	November 30 to December 11, 2015
5	Venue	Integrated Support Center of Nuclear Nonproliferation and Nuclear Security (ISCN) of Japan Atomic Ener
6	Working Language	English
7	Host Organization	JAPAN
8	Presence or Absence of Sponsorship	-
9	Contents of Sponsorship	-
10	Eligibility for Participation	The course is intended mainly for members of SSAC who are directly responsible for SG implementation
	-Background	as an operator at a facility/LOF/other relevant installation.
	-Career	
	-Nationality, etc.	
11	Capacity	26
12	How to apply	-
13	Contact for Inquiries	-
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NDA and C/S and practical exercises. It NMA Reports, State and Facility Level Materials rgy Agency(JAEA), Tokai, Japan as a regulator in the government and/or

No.	Items	Entry Column	
1	Program Title	Characterization of soil microorganisms for bio-fertilizers of rice or several leguminous crop sand evaluation	
		activities caused by the bio-fertilizers and oligo-chitosan	
2	Field	A. Radioactive Waste Management	
		B. Radiation/RI Application	
		C. Reactor	
		D. Fuel/Material	
		E. Nuclear/Radiation Safety	
		F. Policy/ Planning/ Administration	
		G. Others	
3	Outline of the Program	$\cdot$ 1st step: The researcher can explore soil micro-organism for bio-fertilizers in own country in advance a	
	- Objective	permitted by Plant Protection Act in Japan. And we start characterization of those soil microorganism	
	- Method	several leguminous crops using several molecular technique	
	- etc.	· 2nd step: Selection of isolates in terms of environmental tolerance and disease resistance, and abilitie	
		nitrogen fixation.	
		$\cdot$ 3rd step: We applied those novel bio-fertilizers to several crops with oligo-chitosan and evaluate their syr	
		activities.	
4	Schedule and Duration	Schedule will be set by consultation with successful applicant and host organization.	
		Duration will be about 6 months.	
5	Venue	Tokyo University of Agriculture and Technology Institute of Agriculture (Tokyo), Japan	
6	Working Language	English	
7	Host Organization	Nuclear Safety Research Association (NSRA)	
8	Presence or Absence of Sponsorship	Present Absent	
9	Contents of Sponsorship	· Air-ticket	
		Accommodation	
		Daily Allowance	
10	Eligibility for Participation	Master's degree or Bachelor's degree in science and technology	
	-Background	Experience on experiments for microbiology, plant nutrition, etc.	
	-Career	FNCA member countries + Sri Lanka	
	-Nationality, etc.		
11	Capacity	1	
12	How to apply	See website; http://www.nsra.or.jp/int/iard/exchange.html	
13	Contact for Inquiries	iard(atmark)nsra.or.jp	
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on of synergy effects on crop promotion and use it in the research (to the extent ns for developing bio-fertilizer of rice or es of plant nutritional suppliers such as nergy effects in terms of crop promotion

No.	Items	Entry Column	
1	Program Title	Development of plant growth promoter and functional hydrogel from natural polymers using electron beam te	
2	Field (Please circle your answer)	A. Radioactive Waste Management	
		B. Radiation/RI Application	
		C. Reactor	
		D. Fuel/Material	
		E. Nuclear/Radiation Safety	
		F. Policy/ Planning/ Administration	
		G. Others	
3	Outline of the Program	Development of plant growth promoter and functional hydrogels from natural polymers, such as polysacch	
	- Objective	technique for agricultural and medical applications.	
	<ul> <li>Method</li> </ul>		
	- etc.		
4	Schedule and Duration	Schedule will be set by consultation with successful applicant and host organization.	
		Duration will be about 6 months.	
5	Venue	JAEA, Environmental Radiation Processing Group	
		(Takasaki), Japan	
6	Working Language	English	
7	Host Organization	Nuclear Safety Research Association (NSRA)	
8	Presence or Absence of Sponsorship	Present Absent	
9	Contents of Sponsorship	· Air-ticket	
		Accommodation	
		Daily Allowance	
10	Eligibility for Participation	Master's degree or Bachelor's degree in science and technology	
	-Background	Engaged in radiation control	
	-Career	FNCA member countries + Sri Lanka	
	-Nationality, etc.		
11	Capacity	1	
12	How to apply	See website; http://www.nsra.or.jp/int/iard/exchange.html	
13	Contact for Inquiries	iard(atmark)nsra.or.jp_	
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chnique
aride and protein, using electron beam

No.	Items	Entry Column	
1	Program Title	X-ray monitoring analysis of radioatcive Cesium absorption by vermiculite and other clay materials	
2	Field	A. Radioactive Waste Management	
		B. Radiation/RI Application	
		C. Reactor	
		D. Fuel/Material	
		E. Nuclear/Radiation Safety	
		F. Policy/ Planning/ Administration	
		G. Others	
3	Outline of the Program	Learning how to use X-ray analysis for monitoring the behavior of radioactive cesium in vermiculite and othe	
	<ul> <li>Objective</li> </ul>		
	<ul> <li>Method</li> </ul>		
	- etc.		
4	Schedule and Duration	$\cdot$ Schedule will be set by consultation with successful applicant and host organization.	
		Duration will be about 6 months.	
5	Venue	National Institute for Materials Science (NIMS)	
		X-ray physics Laboratory (Tsukuba), Japan	
6	Working Language	English	
7	Host Organization	Nuclear Safety Research Association (NSRA)	
8	Presence or Absence of Sponsorship	Present Absent	
9	Contents of Sponsorship	· Air-ticket	
		Accommodation	
		Daily Allowance	
10	Eligibility for Participation	Bachelor's degree in science and technology	
	-Background	FNCA member countries + Sri Lanka	
	-Career		
	-Nationality, etc.		
11	Capacity	1	
12	How to apply	See website; http://www.nsra.or.jp/int/iard/exchange.html	
13	Contact for Inquiries	iard(atmark)nsra.or.jp	
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r clay materials.	
,	

No.	Items	Entry Column	
1	Program Title	Study on sorption and diffusion of heavy metals or radioactive materials on clay mineral used for nuclear was	
2	Field	A. Radioactive Waste Management	
		B. Radiation/RI Application	
		C. Reactor	
		D. Fuel/Material	
		E. Nuclear/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	
	- Objective	due to its low-permeability, high-expandability, and high-sorption ability for heavy metals or radioisotor	
	<ul> <li>Method</li> </ul>	behaviors of contaminants in the clay have not been fully understood. In this research, mechanism of the	
	- etc.	experiments using radiotracers or analytical apparatus such as ICP-AES.	
4	Schedule and Duration	$\cdot$ Schedule will be set by consultation with successful applicant and host organization.	
		Duration will be about 6 months.	
5	Venue	Hokkaido University, Sapporo city, Japan	
6	Working Language	English	
7	Host Organization	Nuclear Safety Research Association (NSRA)	
8	Presence or Absence of Sponsorship	Present Absent	
9	Contents of Sponsorship	· Air-ticket	
		· Accommodation	
		Daily Allowance	
10	Eligibility for Participation	Graduate level with knowledge of radiation and its relevant field of sciences	
	-Background	FNCA member countries + Sri Lanka	
	-Career		
	-Nationality, etc.		
11	Capacity	1	
12	How to apply	See website; http://www.nsra.or.jp/int/iard/exchange.html	
13	Contact for Inquiries	iard(atmark)nsra.or.jp	
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#### ste managements

n a landfill or a nuclear waste repository, opes. However, sorption and diffusion ne behaviors will be studied through the

No.	Items	Entry Column
1	Program Title	Gamma-ray-irradiation fabrication of the environment purifying materials
2	Field	A. Radioactive Waste Management
		B. Radiation/RI Application
		C. Reactor
		D. Fuel/Material
		E. Nuclear/Radiation Safety
		F. Policy/ Planning/ Administration
		G. Others
3	Outline of the Program	Fabrication of the heavy-metal capturing hydrogels by utilizing gamma-ray.
	<ul> <li>Objective</li> </ul>	
	<ul> <li>Method</li> </ul>	
	- etc.	
4	Schedule and Duration	$\cdot$ Schedule will be set by consultation with successful applicant and host organization.
		Duration will be about 6 months.
5	Venue	Kyushu University, Fukuoka city, Japan
6	Working Language	English
7	Host Organization	Nuclear Safety Research Association (NSRA)
8	Presence or Absence of Sponsorship	Present Absent
9	Contents of Sponsorship	· Air-ticket
		Accommodation
		Daily Allowance
10	Eligibility for Participation	Master's degree in science and technology
	-Background	FNCA member countries + Sri Lanka
	-Career	
	-Nationality, etc.	
11	Capacity	1
12	How to apply	See website; http://www.nsra.or.jp/int/iard/exchange.html
13	Contact for Inquiries	iard(atmark)nsra.or.jp
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No.	Items	Entry Column
1	Program Title	Sorption and diffusion of heavy metals or radioactive materials on clay minerals
2	Field	A. Radioactive Waste Management
		B. Radiation/RI Application
		C. Reactor
		D. Fuel/Material
		E. Nuclear/Radiation Safety
		F. Policy/ Planning/ Administration
		G. Others
3	Outline of the Program	Sorption and diffusion of heavy metals or radioactive materials on bentonite.
	<ul> <li>Objective</li> </ul>	
	<ul> <li>Method</li> </ul>	
	- etc.	
4	Schedule and Duration	$\cdot$ Schedule will be set by consultation with successful applicant and host organization.
		Duration will be about 6 months.
5	Venue	Kyushu University, Fukuoka, Japan
6	Working Language	English
7	Host Organization	Nuclear Safety Research Association (NSRA)
8	Presence or Absence of Sponsorship	Present Absent
9	Contents of Sponsorship	· Air-ticket
		Accommodation
		Daily Allowance
10	Eligibility for Participation	Master's degree in science and engineering
	-Background	Knowledge of thermodynamics
	-Career	FNCA member countries + Sri Lanka
	-Nationality, etc.	
11	Capacity	1
12	How to apply	See website; http://www.nsra.or.jp/int/iard/exchange.html
13	Contact for Inquiries	iard(atmark)nsra.or.jp
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No.	Items	Entry Column
1	Program Title	Sorption of heavy metals or radioactive nuclides on clay minerals and its decontamination
2	Field	A. Radioactive Waste Management
		B. Radiation/RI Application
		C. Reactor
		D. Fuel/Material
		E. Nuclear/Radiation Safety
		F. Policy/ Planning/ Administration
		G. Others
3	Outline of the Program	Decontamination of radiocesium from clay minerals for remediation of contaminated soil using an optim
	- Objective	centrifugation to minimize secondary radioactive environmental contamination.
	<ul> <li>Method</li> </ul>	
	- etc.	
4	Schedule and Duration	$\cdot$ Schedule will be set by consultation with successful applicant and host organization.
		Duration will be about 6 months.
5	Venue	Nagoya University, Japan
6	Working Language	English
7	Host Organization	Nuclear Safety Research Association
8	Presence or Absence of Sponsorship	Present Absent
9	Contents of Sponsorship	· Air-ticket
		Accommodation
		Daily Allowance
10	Eligibility for Participation	Bachelor's degree in science or engineering
	-Background	Fundamental skills or knowledges for safety and chemical treatment of radiosctive nuclides
	-Career	FNCA member countries + Sri Lanka
	-Nationality, etc.	
11	Capacity	1
12	How to apply	See website; http://www.nsra.or.jp/int/iard/exchange.html
13	Contact for Inquiries	iard(atmark)nsra.or.jp_
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No.	Items	Entry Column
1	Program Title	Mutation breeding by gamma ray irradiation for flowers, fruits and rice
2	Field	A. Radioactive Waste Management
		B. Radiation/RI Application
		C. Reactor
		D. Fuel/Material
		E. Nuclear/Radiation Safety
		F. Policy/ Planning/ Administration
		G. Others
3	Outline of the Program	In the Institute of Radiation Breeding (IRB), mutation breeding is being conducted by cooperative research
	- Objective	laboratories, private companies and universities in Japan. We will accept a person who is willingly co
	- Method	ornamental flowers, fruits tree and rice. For those plants we irradiate gamma ray and select mutants in our fi
	- etc.	
4	Schedule and Duration	<ul> <li>Schedule will be set by consultation with successful applicant and host organization.</li> </ul>
		Duration will be about 2 months.
5	Venue	National Institute of Agro-biological Sciences (NIAS), Japan
6	Working Language	English
7	Host Organization	Nuclear Safety Research Association (NSRA)
8	Presence or Absence of Sponsorship	Present Absent
9	Contents of Sponsorship	· Air-ticket
		Accommodation
		Daily Allowance
10	Eligibility for Participation	Researcher who conducts mutation breeding in his/her own country
	-Background	FNCA member countries + Sri Lanka
	-Career	
	-Nationality, etc.	
11	Capacity	1
12	How to apply	See website; http://www.nsra.or.jp/int/iard/exchange.html
13	Contact for Inquiries	iard(atmark)nsra.or.jp
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with notional and professival breading
i with national and prefectural breeding
onduct mutation breeding together for
eld and laboratory.

No.	Items	Entry Column
1	Program Title	Study of radiation induced cellular response with microbeams
2	Field	A. Radioactive Waste Management
		B. Radiation/RI Application
		C. Reactor
		D. Fuel/Material
		E. Nuclear/Radiation Safety
		F. Policy/ Planning/ Administration
		G. Others
3	Outline of the Program	The complexity of DNA damages caused by radiations is different depending on the physical nature such as
	- Objective	density of the radiation. It will be the reason which also influences repair of the damage by which the complex
	- Method	cell after radiations and shows the big difference in response in livings. However, the complexity of the E
	– etc.	physical nature of the radiations and biological sysyems, the understanding of a mechanism about a cell res
		Study will be performed systematically using micro-beam cell irradiation system SPICE mainly about the phy
		systems in cells including DNA damage production and the repair.
4	Schedule and Duration	$\cdot$ Schedule will be set by consultation with successful applicant and host organization.
		Duration will be about 6 months.
5	Venue	National Institute of Radiological Sciences (NIRS), Japan
6	Working Language	English
7	Host Organization	Nuclear Safety Research Association (NSRA)
8	Presence or Absence of Sponsorship	Present Absent
9	Contents of Sponsorship	· Air-ticket
		Accommodation
		Daily Allowance
10	Eligibility for Participation	Ph.,D candidate or researcher with Ph.D
	-Background	FNCA member countries + Sri Lanka
	-Career	
	-Nationality, etc.	
11	Capacity	1
12	How to apply	See website; http://www.nsra.or.jp/int/iard/exchange.html
13	Contact for Inquiries	iard(atmark)nsra.or.jp_
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s the energy or the structure of ionization xity of the DNA damage generated in the DNA damage which corresponds to the sponse including repair isn't enough yet. ysical nature of radiations, and biological

No.	Items	Entry Column
1	Program Title	Development of DNA markers to improve efficiency in radiation-induced mutation breeding
2	Field	A. Radioactive Waste Management
		B. Radiation/RI Application
		C. Reactor
		D. Fuel/Material
		E. Nuclear/Radiation Safety
		F. Policy/ Planning/ Administration
		G. Others
3	Outline of the Program	DNA markers for breeding of an everbearing strawberry will be developed using RAPD and/or AFLP.
	<ul> <li>Objective</li> </ul>	
	<ul> <li>Method</li> </ul>	
	- etc.	
4	Schedule and Duration	$\cdot$ Schedule will be set by consultation with successful applicant and host organization.
		Duration will be about 3 months.
5	Venue	The Wakasa-wan Energy Research Center (WERC), Japan
6	Working Language	English
7	Host Organization	Nuclear Safety Research Association (NSRA)
8	Presence or Absence of Sponsorship	Present Absent
9	Contents of Sponsorship	· Air-ticket
		Accommodation
		Daily Allowance
10	Eligibility for Participation	Bachelor's or master's degree in agriculture or biology
	-Background	The person who actively execute experiments by oneself
	-Career	FNCA member countries + Sri Lanka
	-Nationality, etc.	
11	Capacity	1
12	How to apply	See website; http://www.nsra.or.jp/int/iard/exchange.html
13	Contact for Inquiries	iard(atmark)nsra.or.jp_
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r AFLP.	
	-

No.	Items	Entry Column
1	Program Title	Identification of toxic trace elements in food using nuclear techniques
2	Field	A. Radioactive Waste Management
		B. Radiation/RI Application
		C. Reactor
		D. Fuel/Material
		E. Nuclear/Radiation Safety
		F. Policy/ Planning/ Administration
		G. Others
3	Outline of the Program	Development of high-sensitivity analytical techniques to identify toxic trace elements in food using particle-a
	- Objective	PIXE (Particle-Induced X-ray Emission) analysis.
	- Method	
	– etc.	
4	Schedule and Duration	$\cdot$ Schedule will be set by consultation with successful applicant and host organization.
		Duration will be about 6 months.
5	Venue	Tokyo Institute of Technology, Japan
6	Working Language	English
7	Host Organization	Nuclear Safety Research Association (NSRA)
8	Presence or Absence of Sponsorship	Present Absent
9	Contents of Sponsorship	· Air-ticket
		Accommodation
		Daily Allowance
10	Eligibility for Participation	Bachelor's degree in science and technology
	-Background	Basics in physics and chemistry
	-Career	FNCA member countries + Sri Lanka
	-Nationality, etc.	
11	Capacity	1
12	How to apply	See website; http://www.nsra.or.jp/int/iard/exchange.html
13	Contact for Inquiries	iard(atmark)nsra.or.jp
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accelerator-based technologies such as

No.	Items	Entry Column
1	Program Title	Development for Nuclear decommissioning technologies
2	Field	A. Radioactive Waste Management
		B. Radiation/RI Application
		C. Reactor
		D. Fuel/Material
		E. Nuclear/Radiation Safety
		F. Policy/ Planning/ Administration
		G. Others
3	Outline of the Program	Radioactive inventory evaluation, decommissioning and decontamination technologies for nuclear facility will
	- Objective	
	- Method	
	– etc.	
4	Schedule and Duration	$\cdot$ Schedule will be set by consultation with successful applicant and host organization.
		Duration will be about 3 months.
5	Venue	Japan Atomic Energy Agency (JAEA), Tsuruga, Fukui Pref., Japan
6	Working Language	English
7	Host Organization	Nuclear Safety Research Association (NSRA), Japan
8	Presence or Absence of Sponsorship	Present Absent
9	Contents of Sponsorship	· Air-ticket
		Accommodation
		Daily Allowance
10	Eligibility for Participation	Bachelor's degree in science and technology
	-Background	Engaged in decommissioning for nuclear reactor
	-Career	FNCA member countries + Sri Lanka
	-Nationality, etc.	
11	Capacity	1
12	How to apply	See website; http://www.nsra.or.jp/int/iard/exchange.html
13	Contact for Inquiries	iard(atmark)nsra.or.jp
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be studied in practical field, Fugen.

No.	Items	Entry Column
1	Program Title	Management of hot laboratory facility
2	Field	A. Radioactive Waste Management
		B. Radiation/RI Application
		C. Reactor
		D. Fuel/Material
		E. Nuclear/Radiation Safety
		F. Policy/ Planning/ Administration
		G. Others
3	Outline of the Program	OJT for management of hot laboratory facility include exchange procedure of in-cell equipments.
	- Objective	
	<ul> <li>Method</li> </ul>	
	- etc.	
4	Schedule and Duration	$\cdot$ Schedule will be set by consultation with successful applicant and host organization.
		Duration will be about 3 months.
5	Venue	Japan Atomic Energy Agency (JAEA), Oarai, Ibaraki Pref., Japan
6	Working Language	English
7	Host Organization	Nuclear Safety Research Association (NSRA)
8	Presence or Absence of Sponsorship	Present Absent
9	Contents of Sponsorship	· Air-ticket
		Accommodation
		Daily Allowance
10	Eligibility for Participation	Bachelor's degree in science and technology
	-Background	Engineers or researchers work in management of hot laboratory
	-Career	FNCA member countries + Sri Lanka
	-Nationality, etc.	
11	Capacity	1
12	How to apply	See website; http://www.nsra.or.jp/int/iard/exchange.html
13	Contact for Inquiries	iard(atmark)nsra.or.jp_
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No.	Items	Entry Column
1	Program Title	Conceptual design study for multipurpose small size test/research reactor
2	Field	A. Radioactive Waste Management
		B. Radiation/RI Application
		C. Reactor
		D. Fuel/Material
		E. Nuclear/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,
	- Objective	and management system will be carried out as a conceptual design.
	- Method	
	- etc.	
4	Schedule and Duration	$\cdot$ Schedule will be set by consultation with successful applicant and host organization.
		Duration will be about 3 months.
5	Venue	Japan Atomic Energy Agency (JAEA), Oarai, Ibaraki Pref., Japan
6	Working Language	English
7	Host Organization	Nuclear Safety Research Association (NSRA)
8	Presence or Absence of Sponsorship	Present Absent
9	Contents of Sponsorship	· Air-ticket
		Accommodation
		Daily Allowance
10	Eligibility for Participation	Bachelor's degree in science and technology
	-Background	Engineers or researchers work on design or operation for research reactors
	-Career	FNCA member countries + Sri Lanka
	-Nationality, etc.	
11	Capacity	1
12	How to apply	See website; http://www.nsra.or.jp/int/iard/exchange.html
13	Contact for Inquiries	iard(atmark)nsra.or.jp_
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irradiation facilities, radiation monitoring

No.	Items	Entry Column
1	Program Title	Fundamental study on isolation condenser for boiling water reactors
2	Field	A. Radioactive Waste Management
		B. Radiation/RI Application
		C. Reactor
		D. Fuel/Material
		E. Nuclear/Radiation Safety
		F. Policy/ Planning/ Administration
		G. Others
3	Outline of the Program	In order to contribute to the advancement of isolation condenser (IC), which is one of passive safety sys
	- Objective	(BWR), heat removal property and behavior of two-phase flow in pipes of IC are quantitatively inves
	<ul> <li>Method</li> </ul>	apparatus.
	- etc.	
4	Schedule and Duration	$\cdot$ Schedule will be set by consultation with successful applicant and host organization.
		Duration will be about 6 months.
5	Venue	Hokkaido University, Sapporo, Japan
6	Working Language	English
7	Host Organization	Nuclear Safety Research Association (NSRA)
8	Presence or Absence of Sponsorship	Present Absent
9	Contents of Sponsorship	· Air-ticket
		Accommodation
		Daily Allowance
10	Eligibility for Participation	FNCA member countries + Sri Lanka
	-Background	
	-Career	
	-Nationality, etc.	
11	Capacity	1
12	How to apply	See website; http://www.nsra.or.jp/int/iard/exchange.html
13	Contact for Inquiries	iard(atmark)nsra.or.jp
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stems equipped to boiling water reactor
tigated using large-sized experimental

No.	Items	Entry Column
1	Program Title	Fundamental study on advanced core catcher development for light water reactors
2	Field	A. Radioactive Waste Management
		B. Radiation/RI Application
		C. Reactor
		D. Fuel/Material
		E. Nuclear/Radiation Safety
		F. Policy/ Planning/ Administration
		G. Others
3	Outline of the Program	To develop the advanced core catcher for existing and future light water reactors, anti-heat property and a
	- Objective	such as basalt, anti-fire brick and Zirconia, through interactions with high-temperature melting materials gen
	- Method	
	– etc.	
4	Schedule and Duration	$\cdot$ Schedule will be set by consultation with successful applicant and host organization.
		Duration will be about 6 months.
5	Venue	Hokkaido University, Sapporo, Japan
6	Working Language	English
7	Host Organization	Nuclear Safety Research Association (NSRA)
8	Presence or Absence of Sponsorship	Present Absent
9	Contents of Sponsorship	· Air-ticket
		Accommodation
		Daily Allowance
10	Eligibility for Participation	FNCA member countries + Sri Lanka
	-Background	
	-Career	
	-Nationality, etc.	
11	Capacity	1
12	How to apply	See website; http://www.nsra.or.jp/int/iard/exchange.html
13	Contact for Inquiries	iard(atmark)nsra.or.jp
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nti-stress property of several materials,
nerated by the Thermite reaction.

No.	Items	Entry Column	
1	Program Title	Fundamental study on advanced core catcher development for light water reactors	
2	Field	A. Radioactive Waste Management	
		B. Radiation/RI Application	
		C. Reactor	
		D. Fuel/Material	
		E. Nuclear/Radiation Safety	
		F. Policy/ Planning/ Administration	
		G. Others	
3	Outline of the Program	To develop the advanced core catcher for existing and future light water reactors, anti-heat property and a	
	- Objective	such as basalt, anti-fire brick and Zirconia, through interactions with high-temperature melting materials gen	
	- Method		
	- etc.		
4	Schedule and Duration	$\cdot$ Schedule will be set by consultation with successful applicant and host organization.	
		Duration will be about 6 months.	
5	Venue	Hokkaido University, Japan	
6	Working Language	English	
7	Host Organization	Nuclear Safety Research Association (NSRA)	
8	Presence or Absence of Sponsorship	Present Absent	
9	Contents of Sponsorship	Air-ticket	
		Accommodation	
		Daily Allowance	
10	Eligibility for Participation	FNCA member countries + Sri Lanka	
	-Background		
	-Career		
	-Nationality, etc.		
11	Capacity	1	
12	How to apply	See website; http://www.nsra.or.jp/int/iard/exchange.html	
13	Contact for Inquiries	iard(atmark)nsra.or.jp	
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inti-stress property of several materials,
nerated by the Thermite reaction.

No.	Items	Entry Column	
1	Program Title	Benchmarking of evaluated nuclear data files	
2	Field	A. Radioactive Waste Management	
		B. Radiation/RI Application	
		C. Reactor	
		D. Fuel/Material	
		E. Nuclear/Radiation Safety	
		F. Policy/ Planning/ Administration	
		G. Others	
3	Outline of the Program	Performance of several evaluated nuclear data files, which have been developed in the world, is investigation	
	- Objective	experimental data obtained at nuclear reactors and facilities. Processing of nuclear data files is also carrie	
	- Method	for reactor calculations.	
	- etc.		
4	Schedule and Duration	$\cdot$ Schedule will be set by consultation with successful applicant and host organization.	
		Duration will be about 6 months.	
5	Venue	Hokkaido University, Japan	
6	Working Language	English	
7	Host Organization	Nuclear Safety Research Association (NSRA)	
8	Presence or Absence of Sponsorship	Present Absent	
9	Contents of Sponsorship	· Air-ticket	
		Accommodation	
		Daily Allowance	
10	Eligibility for Participation	FNCA member countries + Sri Lanka	
	-Background		
	-Career		
	-Nationality, etc.		
11	Capacity	1	
12	How to apply	See website; http://www.nsra.or.jp/int/iard/exchange.html	
13	Contact for Inquiries	iard(atmark)nsra.or.jp	
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ted through benchmark calculations for
ed out to generate an application library

No.	Items	Entry Column	
1	Program Title	Numerical simulation of fuel burnup of nuclear reactors	
2	Field	A. Radioactive Waste Management	
		B. Radiation/RI Application	
		C. Reactor	
		D. Fuel/Material	
		E. Nuclear/Radiation Safety	
		F. Policy/ Planning/ Administration	
		G. Others	
3	Outline of the Program	Isotopes generation and transmutations during nuclear reactor operations are simulated by advanced n	
	- Objective	nuclear reactor decay heat and radiotoxicity of nuclear spent fuel are evaluated.	
	- Method		
	- etc.		
4	Schedule and Duration	$\cdot$ Schedule will be set by consultation with successful applicant and host organization.	
		Duration will be about 6 months.	
5	Venue	Hokkaido University, Japan	
6	Working Language	English	
7	Host Organization	Nuclear Safety Research Association (NSRA)	
8	Presence or Absence of Sponsorship	Present Absent	
9	Contents of Sponsorship	· Air-ticket	
		Accommodation	
		Daily Allowance	
10	Eligibility for Participation	FNCA member countries + Sri Lanka	
	-Background		
	-Career		
	-Nationality, etc.		
11	Capacity	1	
12	How to apply	See website; http://www.nsra.or.jp/int/iard/exchange.html	
13	Contact for Inquiries	iard(atmark)nsra.or.jp_	
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umerical	software,	and	time-depende	ent

No.	Items	Entry Column		
1	Program Title	Development of advanced neutron transport simulation code for radioactivity evaluation of nuclear reactor of		
2	Field	A. Radioactive Waste Management		
		B. Radiation/RI Application		
		C. Reactor		
		D. Fuel/Material		
		E. Nuclear/Radiation Safety		
		F. Policy/ Planning/ Administration		
		G. Others		
3	Outline of the Program	In order to accurately evaluate radioactivity of nuclear reactor component materials, an advanced neutron tr		
	- Objective	on the discrete-ordinate method and hyper-fine energy group treatment, is developed.		
	<ul> <li>Method</li> </ul>			
	- etc.			
4	Schedule and Duration	$\cdot$ Schedule will be set by consultation with successful applicant and host organization.		
		Duration will be about 6 months.		
5	Venue	Hokkaido University, Japan		
6	Working Language	English		
7	Host Organization	Nuclear Safety Research Association (NSRA)		
8	Presence or Absence of Sponsorship	Present Absent		
9	Contents of Sponsorship	· Air-ticket		
		Accommodation		
		Daily Allowance		
10	Eligibility for Participation	FNCA member countries + Sri Lanka		
	-Background			
	-Career			
	-Nationality, etc.			
11	Capacity	1		
12	How to apply	See website; http://www.nsra.or.jp/int/iard/exchange.html		
13	Contact for Inquiries	iard(atmark)nsra.or.jp		
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component materials
ansport simulation code, which is based

No.	Items	Entry Column		
1	Program Title	Computational study on nuclear thermal hydraulics		
2	Field	A. Radioactive Waste Management		
		B. Radiation/RI Application		
		C. Reactor		
		D. Fuel/Material		
		E. Nuclear/Radiation Safety		
		F. Policy/ Planning/ Administration		
		G. Others		
3	Outline of the Program	The objective of this study is to optimize the design of nuclear power plant and to improve the safety by cor		
	- Objective	thermal hydraulic phenomena such as cavitation and turbulence in nuclear power plant.		
	<ul> <li>Method</li> </ul>			
	- etc.			
4	Schedule and Duration	$\cdot$ Schedule will be set by consultation with successful applicant and host organization.		
		Duration will be about 3 to 6 months.		
5	Venue	Ibaraki University, Japan		
6	Working Language	English		
7	Host Organization	Nuclear Safety Research Association (NSRA)		
8	Presence or Absence of Sponsorship	Present Absent		
9	Contents of Sponsorship	· Air-ticket		
		Accommodation		
		Daily Allowance		
10	Eligibility for Participation	Degree of Bachelor in science or engineering		
	-Background	Knowledge of fluid dynamics and numerical simulation		
	-Career	FNCA member countries + Sri Lanka		
	-Nationality, etc.			
11	Capacity	1		
12	How to apply	See website; http://www.nsra.or.jp/int/iard/exchange.html		
13	Contact for Inquiries	iard(atmark)nsra.or.jp		
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nputationally investigating the important	

No.	Items	Entry Column	
1	Program Title	Measurement of thermalhydraulics for nuclear safety	
2	Field	A. Radioactive Waste Management	
		B. Radiation/RI Application	
		C. Reactor	
		D. Fuel/Material	
		E. Nuclear/Radiation Safety	
		F. Policy/ Planning/ Administration	
		G. Others	
3	Outline of the Program	Development of measurement techniques for nuclear thermal hydraulics.	
	- Objective		
	<ul> <li>Method</li> </ul>		
	- etc.		
4	Schedule and Duration	$\cdot$ Schedule will be set by consultation with successful applicant and host organization.	
		Duration will be about 6 months.	
5	Venue	Kyoto University, Japan	
6	Working Language	English	
7	Host Organization	Nuclear Safety Research Association (NSRA)	
8	Presence or Absence of Sponsorship	Present Absent	
9	Contents of Sponsorship	· Air-ticket	
		Accommodation	
		Daily Allowance	
10	Eligibility for Participation	Bachelor's degree in science and technology	
	-Background	Engaged in thermal hydraulics	
	-Career	FNCA member countries + Sri Lanka	
	-Nationality, etc.		
11	Capacity	1	
12	How to apply	See website; http://www.nsra.or.jp/int/iard/exchange.html	
13	Contact for Inquiries	iard(atmark)nsra.or.jp	
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No.	Items	Entry Column
1	Program Title	Experimental study on multi-phase flow phenomena in severe accidents of nuclear reactors
2	Field	A. Radioactive Waste Management
		B. Radiation/RI Application
		C. Reactor
		D. Fuel/Material
		E. Nuclear/Radiation Safety
		F. Policy/ Planning/ Administration
		G. Others
3	Outline of the Program	Experimental clarification on hydrodynamic characteristics of disrupted core debris and development of the
	- Objective	
	- Method	
	– etc.	
4	Schedule and Duration	$\cdot$ Schedule will be set by consultation with successful applicant and host organization.
		Duration will be about 6 months.
5	Venue	Kyushu University, Fukuoka city, Japan
6	Working Language	English
7	Host Organization	Nuclear Safety Research Association (NSRA)
8	Presence or Absence of Sponsorship	Present Absent
9	Contents of Sponsorship	Air-ticket
		Accommodation
		Daily Allowance
10	Eligibility for Participation	Master's degree in science and engineering
	-Background	Knowledge of thermal hydraulics
	-Career	FNCA member countries + Sri Lanka
	-Nationality, etc.	
11	Capacity	1
12	How to apply	See website; http://www.nsra.or.jp/int/iard/exchange.html
13	Contact for Inquiries	iard(atmark)nsra.or.jp
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ir experimental database.

No.	Items	Entry Column
1	Program Title	Analysis of BEAVER benchmark problem using various neutronics analysis codes
2	Field	A. Radioactive Waste Management
		B. Radiation/RI Application
		C. Reactor
		D. Fuel/Material
		E. Nuclear/Radiation Safety
		F. Policy/ Planning/ Administration
		G. Others
3	Outline of the Program	In this research, the applicant will perform extensive neutronics analysis of the BEAVER benchmark suite u
	- Objective	codes.
	- Method	
	- etc.	
4	Schedule and Duration	$\cdot$ Schedule will be set by consultation with successful applicant and host organization.
		Duration will be about 6 months.
5	Venue	Nagoya University, Japan
6	Working Language	English
7	Host Organization	Nuclear Safety Research Association (NSRA)
8	Presence or Absence of Sponsorship	Present Absent
9	Contents of Sponsorship	· Air-ticket
		Accommodation
		Daily Allowance
10	Eligibility for Participation	Experience on neutronics analysis
	-Background	Bachelor's degree in nuclear engineering
	-Career	Programming using fortran/c/c++
	-Nationality, etc.	FNCA member countries + Sri Lanka
11	Capacity	1
12	How to apply	See website; http://www.nsra.or.jp/int/iard/exchange.html
13	Contact for Inquiries	iard(atmark)nsra.or.jp_
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sing various neutronics characteristics

No.	Items	Entry Column
1	Program Title	Design concept of innovative small long-life passive-safe nuclear reactor
2	Field	A. Radioactive Waste Management
		B. Radiation/RI Application
		C. Reactor
		D. Fuel/Material
		E. Nuclear/Radiation Safety
		F. Policy/ Planning/ Administration
		G. Others
3	Outline of the Program	Study on innovative nuclear reactor concept which does not need refueling for long period with high passiv
	- Objective	
	- Method	
	- etc.	
4	Schedule and Duration	$\cdot$ Schedule will be set by consultation with successful applicant and host organization.
		Duration will be about 6 months.
5	Venue	Tokyo Institute of Technology, Japan
6	Working Language	English
7	Host Organization	Nuclear Safety Research Association (NSRA)
8	Presence or Absence of Sponsorship	Present Absent
9	Contents of Sponsorship	· Air-ticket
		Accommodation
		Daily Allowance
10	Eligibility for Participation	Master's degree or doctoral degree in scinece and technology
	-Background	Experience of research in the field of nuclear reactor engineering
	-Career	FNCA member countries + Sri Lanka
	-Nationality, etc.	
11	Capacity	1
12	How to apply	See website; http://www.nsra.or.jp/int/iard/exchange.html
13	Contact for Inquiries	iard(atmark)nsra.or.jp
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e safety feature	

No.	Items	Entry Column
1	Program Title	Environmental radiation monitoring around nuclear facilities
2	Field	A. Radioactive Waste Management
		B. Radiation/RI Application
		C. Reactor
		D. Fuel/Material
		E. Nuclear/Radiation Safety
		F. Policy/ Planning/ Administration
		G. Others
3	Outline of the Program	Related with environmental radiation monitoring around nuclear facilities,
	- Objective	Environmental radiation measurement (as usual or in emergency)
	<ul> <li>Method</li> </ul>	Test and calibration of radiation monitor
	- etc.	
4	Schedule and Duration	$\cdot$ Schedule will be set by consultation with successful applicant and host organization.
		Duration will be about 3 months.
5	Venue	Japan Atomic Energy Agency (JAEA), Oarai, Ibaraki Pref. Japan
6	Working Language	English
7	Host Organization	Nuclear Safety Research Association (NSRA)
8	Presence or Absence of Sponsorship	Present Absent
9	Contents of Sponsorship	· Air-ticket
		Accommodation
		Daily Allowance
10	Eligibility for Participation	Bachelor's degree in science and technology
	-Background	Engaged in radiation measurement
	-Career	FNCA member countries + Sri Lanka
	-Nationality, etc.	
11	Capacity	1
12	How to apply	See website; http://www.nsra.or.jp/int/iard/exchange.html
13	Contact for Inquiries	iard(atmark)nsra.or.jp
*Plea	ase replace "(atmark)" with "@"	

No.	Items	Entry Column
1	Program Title	Development of remote technologies for decommissioning in high radiation environment
2	Field	A. Radioactive Waste Management
		B. Radiation/RI Application
		C. Reactor
		D. Fuel/Material
		E. Nuclear/Radiation Safety
		F. Policy/ Planning/ Administration
		G. Others
3	Outline of the Program	To develop technologies concerning radiation measurement, nuclear emergency responce, radionucli
	- Objective	environment.
	- Method	
	– etc.	
4	Schedule and Duration	Schedule will be set by consultation with successful applicant and host organization.
		Duration will be about 2 months.
5	Venue	Japan Atomic Energy Agency (JAEA), Fukushima, Japan
6	Working Language	English
7	Host Organization	Nuclear Safety Research Association (NSRA)
8	Presence or Absence of Sponsorship	Present Absent
9	Contents of Sponsorship	· Air-ticket
		Accommodation
		Daily Allowance
10	Eligibility for Participation	Bachelor of Science or Engineering
	-Background	Master of Science or Engineering
	-Career	Engineer of robotics, radiation measurement and its associated technologies
	-Nationality, etc.	FNCA member countries + Sri Lanka
11	Capacity	1
12	How to apply	See website; http://www.nsra.or.jp/int/iard/exchange.html
13	Contact for Inquiries	iard(atmark)nsra.or.jp_
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de	analysis,	etc.,	in	high	radiati	on

No.	Items	Entry Column
1	Program Title	Detector materials for gamma ray and neutrons, and mobile measurement technologies
2	Field	A. Radioactive Waste Management
		B. Radiation/RI Application
		C. Reactor
		D. Fuel/Material
		E. Nuclear/Radiation Safety
		F. Policy/ Planning/ Administration
		G. Others
3	Outline of the Program	Learning how to prepare the detector materials for gamma ray and neutrons, as well as mobile measu
	- Objective	suitable for filed work.
	- Method	
	- etc.	
4	Schedule and Duration	$\cdot$ Schedule will be set by consultation with successful applicant and host organization.
		Duration will be about 6 months.
5	Venue	National Institute for Materials Science (NIMS), Tsukuba city, Japan
6	Working Language	English
7	Host Organization	Nuclear Safety Research Association (NSRA)
8	Presence or Absence of Sponsorship	Present Absent
9	Contents of Sponsorship	· Air-ticket
		Accommodation
		Daily Allowance
10	Eligibility for Participation	Bachelor's degree in science and technology
	-Background	FNCA member countries + Sri Lanka
	-Career	
	-Nationality, etc.	
11	Capacity	1
12	How to apply	See website; http://www.nsra.or.jp/int/iard/exchange.html
13	Contact for Inquiries	iard(atmark)nsra.or.jp
*Ple	ase replace "(atmark)" with "@"	

ement/signal	processing	technogies

No.	Items	Entry Column
1	Program Title	Precise determination of radionuclides using ICP-MS technique
2	Field	A. Radioactive Waste Management
		B. Radiation/RI Application
		C. Reactor
		D. Fuel/Material
		E. Nuclear/Radiation Safety
		F. Policy/ Planning/ Administration
		G. Others
3	Outline of the Program	Development of the precise determination technique on radionuclides such as uranium and thorium in the
	- Objective	inductively coupled plasma mass spectrometry.
	- Method	
	- etc.	
4	Schedule and Duration	$\cdot$ Schedule will be set by consultation with successful applicant and host organization.
		Duration will be about 6 months.
5	Venue	Hirosaki University, Aomori Pref., Japan
6	Working Language	English
7	Host Organization	Nuclear Safety Research Association (NSRA)
8	Presence or Absence of Sponsorship	Present Absent
9	Contents of Sponsorship	· Air-ticket
		Accommodation
		Daily Allowance
10	Eligibility for Participation	Bachelor's degree in science and technology
	-Background	Engaged in radiation measurement
	-Career	FNCA member countries + Sri Lanka
	-Nationality, etc.	
11	Capacity	1
12	How to apply	See website; http://www.nsra.or.jp/int/iard/exchange.html
13	Contact for Inquiries	iard(atmark)nsra.or.jp
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No.	Items	Entry Column
1	Program Title	Soil radon (222Rn) monitoring to evaluate radon as a tracer of soil air (water) movement
2	Field	A. Radioactive Waste Management
		B. Radiation/RI Application
		C. Reactor
		D. Fuel/Material
		E. Nuclear/Radiation Safety
		F. Policy/ Planning/ Administration
		G. Others
3	Outline of the Program	Monitoring soil air components (radon, CO2 and its carbon isotopes) simultaneously ina forest site in Hokk
	- Objective	
	- Method	
	– etc.	
4	Schedule and Duration	$\cdot$ Schedule will be set by consultation with successful applicant and host organization.
		Duration will be about 6 months.
5	Venue	Hokkaido University, Japan
6	Working Language	English
7	Host Organization	Nuclear Safety Research Association (NSRA)
8	Presence or Absence of Sponsorship	Present Absent
9	Contents of Sponsorship	· Air-ticket
		· Accommodation
		Daily Allowance
10	Eligibility for Participation	Bachelor degree in science and technology
	-Background	Engaged in radiochemistry and radiation measurement
	-Career	FNCA member countries + Sri Lanka
	-Nationality, etc.	
11	Capacity	1
12	How to apply	See website; http://www.nsra.or.jp/int/iard/exchange.html
13	Contact for Inquiries	iard(atmark)nsra.or.jp_
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No.	Items	Entry Column
1	Program Title	Follow-up research on radiactive cesium in the environment
2	Field	A. Radioactive Waste Management
		B. Radiation/RI Application
		C. Reactor
		D. Fuel/Material
		E. Nuclear/Radiation Safety
		F. Policy/ Planning/ Administration
		G. Others
3	Outline of the Program	Environmental assessment of aftermath due to nuclear power plant explosion. First detection of radioactive
	- Objective	reservoir by radio-autography and Ge semiconductor detector, then analyses of particles by X-ray.
	- Method	
	- etc.	
4	Schedule and Duration	$\cdot$ Schedule will be set by consultation with successful applicant and host organization.
		Duration will be about 3 months.
5	Venue	Ibaraki University, Japan
6	Working Language	English
7	Host Organization	Nuclear Safety Research Association (NSRA)
8	Presence or Absence of Sponsorship	Present Absent
9	Contents of Sponsorship	· Air-ticket
		Accommodation
		Daily Allowance
10	Eligibility for Participation	Degree of Bachelor in science or engineering
	-Background	Knowledge of radiation measurement
	-Career	FNCA member countries + Sri Lanka
	-Nationality, etc.	
11	Capacity	1
12	How to apply	See website; http://www.nsra.or.jp/int/iard/exchange.html
13	Contact for Inquiries	iard(atmark)nsra.or.jp
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No.	Items	Entry Column
1	Program Title	Study on the interaction of radionuclides and suspended matters in natural waters
2	Field	A. Radioactive Waste Management
		B. Radiation/RI Application
		C. Reactor
		D. Fuel/Material
		E. Nuclear/Radiation Safety
		F. Policy/ Planning/ Administration
		G. Others
3	Outline of the Program	For understanding of the migration behavior of radionuclides in the environment, the interaction of radionuclides in the environment.
	- Objective	(including colloids) contained in deep groundwater or surface water is studied under several chemical cond
	- Method	
	- etc.	
4	Schedule and Duration	$\cdot$ Schedule will be set by consultation with successful applicant and host organization.
		Duration will be about 5 to 6 months
5	Venue	Tohoku University, Sendai city, Miyagi Pref. Japan
6	Working Language	English
7	Host Organization	Nuclear Safety Research Association (NSRA)
8	Presence or Absence of Sponsorship	Present Absent
9	Contents of Sponsorship	· Air-ticket
		Accommodation
		Daily Allowance
10	Eligibility for Participation	Master's or Bachelor's degree in science and technology
	-Background	Engaged in analytical chemistry, inroganic chemistry and/or radio chemistry
	-Career	FNCA member countries + Sri Lanka
	-Nationality, etc.	
11	Capacity	1
12	How to apply	See website; http://www.nsra.or.jp/int/iard/exchange.html
13	Contact for Inquiries	iard(atmark)nsra.or.jp_
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adionuclides litions.	and	suspended	matters

No.	Items	Entry Column
1	Program Title	Fundamental study for the development of high-energy photon field by LINAC
2	Field	A. Radioactive Waste Management
		B. Radiation/RI Application
		C. Reactor
		D. Fuel/Material
		E. Nuclear/Radiation Safety
		F. Policy/ Planning/ Administration
		G. Others
3	Outline of the Program	For the development of high-energy photon field using the LINIAC, the evaluation of photon spectra are nee
	- Objective	photon spectra will be done using EGS code.
	- Method	
	– etc.	
4	Schedule and Duration	$\cdot$ Schedule will be set by consultation with successful applicant and host organization.
		Duration will be about 3 months
5	Venue	National Institute of Advanced Industrial, Science and Technology (AIST), Tsukuba city, Japan
6	Working Language	English
7	Host Organization	Nuclear Safety Research Association (NSRA)
8	Presence or Absence of Sponsorship	Present Absent
9	Contents of Sponsorship	· Air-ticket
		Accommodation
		Daily Allowance
10	Eligibility for Participation	Bachelor's degree in science and technology
	-Background	Engaged in radiation measurement
	-Career	FNCA member countries + Sri Lanka
	-Nationality, etc.	
11	Capacity	1
12	How to apply	See website; http://www.nsra.or.jp/int/iard/exchange.html
13	Contact for Inquiries	iard(atmark)nsra.or.jp
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eded. So in this study, the simulation of

No.	Items	Entry Column
1	Program Title	High energy photon counting technology development
2	Field	A. Radioactive Waste Management
		B. Radiation/RI Application
		C. Reactor
		D. Fuel/Material
		E. Nuclear/Radiation Safety
		F. Policy/ Planning/ Administration
		G. Others
3	Outline of the Program	High energy photon counting method will be developed during the candidate's stay with our ion beam accele
	<ul> <li>Objective</li> </ul>	to help measurement of ion beam flux. Alsol high energy photon (gamma- and X-ray) counting method dev
	- Method	carried out.
	- etc.	
4	Schedule and Duration	Schedule will be set by consultation with successful applicant and host organization.
		Duration will be about 3 months
5	Venue	The Wakasa Wan Energy Research Center (WERC), Tsuruga city, Fukui Pref., Japan
6	Working Language	English
7	Host Organization	Nuclear Safety Research Association (NSRA)
8	Presence or Absence of Sponsorship	Present Absent
9	Contents of Sponsorship	Air-ticket
		Accommodation
		Daily Allowance
10	Eligibility for Participation	Master or doctor degree in science and technology
	-Background	Engaged in radiation measurement
	-Career	Experience in C and Fortran-programming
	-Nationality, etc.	FNCA member countries + Sri Lanka
11	Capacity	1
12	How to apply	See website; http://www.nsra.or.jp/int/iard/exchange.html
13	Contact for Inquiries	iard(atmark)nsra.or.jp
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No.	Items	Entry Column	
1	Program Title	Course of Nuclear Energy Officials (NEO)	
		NUCLEAR SAFETY SEMINAR FY 2015	
2	Field	A. Radioactive Waste Management	
		B. Radiation/RI Application	
		C. Reactor	
		D. Fuel/Material	
		E. Nuclear/Radiation Safety	
		F. Policy/ Planning/ Administration	
		G. Others	
3	Outline of the Program	· This course is organized for the officials in nuclear power and radiation utilizations to provide	
	- Objective	engineering and/or radiation utilization as well as public relations.	
	<ul> <li>Method</li> </ul>	· Lectures on nuclear/nuclear safety policy including nuclear safety culture, safety measures ar	
	- etc.	application, lessons learned from Fukushima	
		Visit to facilities including nuclear power plant	
		Discussion on nuclear energy aiming at establishment of human network	
		Country report presentation	
4	Schedule and Duration	October 19 to November 6, 2015	
5	Venue	WERC, Tsuruga city, Fukui Pref. Japan	
6	Working Language	English	
7	Host Organization	The Wakasa Wan Energy Research Center	
		MEXT, JAEA	
8	Presence or Absence of Sponsorship	Present Absent	
9	Contents of Sponsorship	Daily allowance	
		Air ticket	
		Accommodation fee	
		Domestic transportation	
10	Eligibility for Participation	$\cdot$ Administrative officers who engage in nuclear governance, particularly in the nuclear regulation field	
	-Background	• Bangladesh, China, Indonesia, Kazakhstan, Malaysia, Mongolia, Philippines, Saudi Arabia, Sri Lanka,	
	-Career		
	-Nationality, etc.		
11	Capacity	10	
12	How to apply	Send the application form to WERC no later than July 3, 2015	
13	Contact for Inquiries	International HRD Group	
		FIHRDC	
		The Wakasa Wan Energy Research Center	
		E-mail: aashida(atmark)werc.or.jp	
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them with knowledge on basic nuclear	
d safety management. HRD, radiation	
I nalland, Turkey and Vietnam	

No.	Items	Entry Column	
1	Program Title	Course of Nuclear Plant Safety (NPS)	
		NUCLEAR SAFETY SEMINAR	
2	Field	A. Radioactive Waste Management	
		B. Radiation/RI Application	
		C. Reactor	
		D. Fuel/Material	
		E. Nuclear/Radiation Safety	
		F. Policy/ Planning/ Administration	
		G. Others	
3	Outline of the Program	$\cdot$ This course is organized for the technical staffs in nuclear power and radiation utilizations to pr	
	- Objective	engineering and/or radiation utilization.	
	- Method	Lectures on system structure/safety design of nuclear power plant, construction/operation/maintenance	
	- etc.	emergency preparedness in Japan, and lessons learned from Fukushima accident	
		Country report presentation	
		• Discussion	
4	Schedule and Duration	November 16 to December 11, 2015	
5	Venue	WERC, Tsuruga city, Fukui Pref. Japan	
6	Working Language	English	
7	Host Organization	Wakasa Wan Energy Research Center (WERC)	
		MEXT, JAEA	
8	Presence or Absence of Sponsorship	Present Absent	
9	Contents of Sponsorship	Daily allowance	
		· Air ticket	
		Accommodation fee	
		Domestic transportation	
10	Eligibility for Participation	$\cdot$ Technical staff or researchers who engage in the nuclear technical field such as nuclear safety, radiation	
	-Background	$\cdot$ Bangladesh, China, Indonesia, Kazakhstan, Malaysia, Mongolia, Philippines, Saudi Arabia, Sri Lanka,	
	-Career		
	-Nationality, etc.		
11	Capacity	10	
12	How to apply	Send the application form to WERC no later than July 3, 2015	
13	Contact for Inquiries	International HRD Group, FIHRDC	
		The Wakasa Wan Energy Research Center	
		E-mail: aashida(atmark)werc.or.jp	
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ovide them with knowledge on nuclear	•
e, techniques and experiences for nuclear	
n protection, nuclear engineering	
Thailand, Turkey and Vietnam	

No.	Items	Entry Column	
1	Program Title	Course of Site Preparation & Public Relation (SP & PR)	
		NUCLEAR SAFETY SEMINAR FY 2015	
2	Field	A. Radioactive Waste Management	
		B. Radiation/RI Application	
		C. Reactor	
		D. Fuel/Material	
		E. Nuclear/Radiation Safety	
		F. Policy/ Planning/ Administration	
		G. Others	
3	Outline of the Program	This course is organized to provide essential information for site preparation of nuclear facilities, such	
	- Objective	relation, risk communication and others.	
	- Method	· Lectures	
	- etc.	Practical training	
		Visit to NPP site in Tsuruga	
		• Discussion	
4	Schedule and Duration	January 18 to 22, 2016	
5	Venue	WERC, Tsuruga city, Fukui Pref. Japan	
6	Working Language	English	
7	Host Organization	Wakasa Wan Energy Research Center (WERC)	
		MEXT, JAEA	
8	Presence or Absence of Sponsorship	Present Absent	
9	Contents of Sponsorship	Daily allowance	
		• Air ticket	
		Accommodation fee	
		Domestic transportation	
10	Eligibility for Participation	$\cdot$ Administrative officers who engage in nuclear governance, particularly in the nuclear regulation field	
	-Background	$\cdot$ Bangladesh, Indonesia, Kazakhstan, Malaysia, Mongolia, Philippines, Saudi Arabia, Sri Lanka, Thailan	
	-Career		
	-Nationality, etc.		
11	Capacity	7	
12	How to apply	Send the application form to WERC no later than July 3, 2015	
13	Contact for Inquiries	International HRD Group, FIHRDC	
		The Wakasa Wan Energy Research Center	
		E-mail: aashida(atmark)werc.or.jp	
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#### ANTEP 2015 Programs by Korea

No.	Items	Entry Column
1	Program Title	2015 KOICA/IAEA/KAERI Nuclear Energy Policy,
		Planning and Project Management
2	Field	A. Radioactive Waste Management
		B. Radiation/RI Application
		C. Reactor
		D. Fuel/Material
		E. Nuclear/Radiation Safety
		F. Policy/ Planning/ Administration
		G. Others
3	Outline of the Program	The purpose of this regional training course is to provide
	- Objective	fundamental and practical information associated with
	- Method	nuclear energy policy, planning, and the implementation
	- etc.	of a nuclear energy project to mid-level managers and
		technical professionals from the countries interested in or
		making efforts to introduce their first nuclear power
		including multi-purpose reactor
4	Schedule and Duration	13-30 Oct. 2015, 20days
5	Venue	Daejeon, Korea
6	Working Language	English
7	Host Organization	Korea Atomic Energy Research Institute (KAERI)
8	Presence or Absence of Sponsorship	Present Absent
9	Contents of Sponsorship	Travel expense, accomodation assistance, day
		allowance by Korea International Cooperation Agency
		(KOICA)
10	Eligibility for Participation	Applicants should be working at a governmental
	-Background	authority, utility, nuclear-related R&D institute, or
	-Career	regulatory agency for introduction of the nuclear power
	-Nationality, etc.	programme. Participants should have at least 5 year of
		experience in a nuclear related
		field and preferably be between 30 and 50 years of age.
11	Capacity	15-20
12	How to apply	Nominations should be submitted on the standard IAEA
		and KOICA training course nomination form.
13	Contact for Inquiries	MS. Joohee Kim
		Capacity Development Program Team (KOICA)
		Joonhee(atmark)koica.go.
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#### ANTEP 2015 Programs by Korea

No.	Question	Entry Column
1	Program Title	2015 RCARO/KAERI REGIONAL WORKSHOP on
		Radiation Application
2	Field	A. Radioactive Waste Management
		B. Radiation/RI Application
		C. Reactor
		D. Fuel/Material
		E. Nuclear/Radiation Safety
		F. Policy/ Planning/ Administration
		G. Others
3	Outline of the Program	To introduce radiation application based on the
	- Objective	experiences of RCA Member States and Korea
	- Method	
	- etc.	
4	Schedule and Duration	12-23 Oct. 2015, 14days
5	Venue	Daejeon, Korea
6	Working Language	English
7	Host Organization	Korea Atomic Energy Research Institute (KAERI)
8	Presence or Absence of Sponsorship	Present Absent
9	Contents of Sponsorship	Travel expense, accommodation assistance, day
		allowance by RCA Regional Office
10	Eligibility for Participation	Technical and managerial professionals directly involved
	-Background	in the field of radiation application technology in
	-Career	government authorities, R&D institutes and regulatory
	-Nationality, etc.	bodies
		Minimum of 5 years relevant experience in radiation
		application technology 15-20 Completed application form
		should be endorsed and approved by the National RCA
		Representative
11	Capacity	15-20
12	How to apply	Completed application form should be endorsed and
		approved by the National RCA Representative
13	Contact for Inquiries	Ju Hyun Lim
		RCA Regional Office
		Julie(atmark)rcaro.org
(Plea	ase replace "(atmark)" with "@")	

#### ANTEP 2015 Program by Malaysia

No.	Items	Entry Column	
1	Program Title	Basic Course on Industrial Radiography for	
		Operator Trainee Part 1 and 11	
2	Field	A. Radioactive Waste Management	
		B. Radiation/RI Application	
		C. Reactor	
		D. Fuel/Material	
		E. Nuclear/Radiation Safety	
		F. Policy/ Planning/ Administration	
		G. Others	
3	Outline of the Program	Radiography, ultrasonics, eddy current, magnetic	
	<ul> <li>Objective</li> </ul>	particles and liquid penetrant up to construction	
	<ul> <li>Method</li> </ul>	stage of nuclear power (ASME V)	
	- etc.		
4	Schedule and Duration	Refer to the announcement available in the website:	
		http://trainingcentre.nuclearmalaysia.gov.my	
5	Venue	Malaysian Nuclear Agency	
6	Working Language	English	
7	Host Organization	Malaysian Nuclear Agency	
8	Presence or Absence of Sponsorship	Present (partly) Absent	
9	Contents of Sponsorship	Training fee will be waived for FNCA countries	
10	Eligibility for Participation	Participants from Bangladesh, China, Indonesia,	
	-Background	Kazakhstan, Mongolia, The Philippines, Sri Lanka,	
	-Career	Thailand and Vietnam	
	-Nationality, etc.		
11	Capacity	2	
12	How to apply	Apply directly to the Manager, Training Center,	
		Malaysian Nuclear Agency	
13	Contact for Inquiries	Nor Hadzalina binti Sukarseh	
		Manager, Nuclear Malaysia Training Centre	
		Telephone: 603-89112000 ext. 2609	
		Facsimili: 603-89253687	
		Email: hadza(atmark)nm.gov.my	
		website:	
		http://trainingcentre.nuclearmalaysia.gov.my	
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#### ANTEP 2015 Program by Vietnam

No.	Items	Entry Column
1	Program Title	Basic Professional Training Courses
2	Field	A. Radioactive Waste Management
		B. Radiation/RI Application
		C. Reactor
		D. Fuel/Material
		E. Nuclear/Radiation Safety
		F. Policy/ Planning/ Administration
		G. Others
3	Outline of the Program	- Basic knowledge of above fields
	- Objective	- Theory and Practice
	- Method	
	- etc.	
4	Schedule and Duration	Schedule not yet decided, Duration of each course in 1-3
		weeks
5	Venue	• Nuclear Training Center, Nuclear Research Institute (NRI),
		01 Nguyen Tu Luc, Da Lat city, Lam Dong province,
		Vietnam
		• Nuclear Training Center, VINATOM, 140 Nguyen Tuan,
		Hanoi, Vietnam
6	Working Language	English/Vietnamese
7	Host Organization	Nuclear Research Institute (NRI), VINATOM
		NTC, VINATOM
8	Presence or Absence of Sponsorship	Present Absent
9	Contents of Sponsorship	None
10	Eligibility for Participation	1) Master's or bachelor's degree in science and engineering
	-Background	2) Engaged in radiation work
	-Career	3) Thai Land, Malaysia, Indonesia, Vietnam
	-Nationality, etc.	
11	Capacity	10
12	How to apply	will be announce on the website of NRI http://www.nri.gov.vn
13	Contact for Inquiries	Nuclear Training Center, Nuclear Research Institute (NRI), 01
		Nguyen Tu Luc, Da Lat city, Lam Dong province, Vietnam
		Tel: +84-63-3520770 Fax: +84-63-3821107
		Email: ttdtnchndl(atmark)yahoo.com
		Website: <u>http://www.nri.gov.vn</u>
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