REPROLAM
Red de Optimización de la Protección Radiológica Ocupacional en LatinoAmérica y el Caribe

NEWSLETTER

NUMBER 1, JANUARY 2024

GREETINGS TO THE ENTIRE REPROLAM COMMUNITY AT THE BEGINNING OF THIS YEAR!

Last year witnessed significant progress in our shared mission, and this new year presents us with the opportunity to continue strengthening our commitment to the safety and well-being of all professionals involved in the radiological field.

In this issue, we will share the latest news, developments, and projects that bring us closer to our goal. We take pride in highlighting the achievements and exploring avenues together to further enhance radiological protection in the region.

Each one of you plays a pivotal role in this collective effort, and we want to express our gratitude for your dedication and contribution to Reprolam's mission. Let's continue working together to make 2024 a year of shared successes, continuous learning, and a positive impact on occupational radiological protection throughout Latin America.

Happy New Year, and may this year be filled with achievements and prosperity for all!

Reprolam Directive Committee

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FIRST ANNOUNCEMENT

The symposium's objective is to facilitate the integration among professionals from different countries and contribute to the information and updating of human resources in the field of radiological protection.

TOPICS:

- External Dosimetry
- Internal Dosimetry
- Biological Dosimetry
- Computational Dosimetry
- Radiological Metrology
- Safety Culture
- Safety Assessment
- End Users (Medical and Industrial)

Coming soon, we will publish more updates!

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INTERNATIONAL SCHOOL ON NUCLEAR METHODS AND APPLIED RESEARCH IN ENVIRONMENTAL, MATERIAL AND LIFE SCIENCES

NUMAR-2024

FEBRUARY 25–28 / VARADERO (CUBA)

IMPORTANT
Application deadline: 01.02.2024
List of participants: 07.02.2024
Arrival: 25.02.2024
Departure: 28–29.02.2024

Organizers:

JOINT INSTITUTE FOR NUCLEAR RESEARCH (JINR)
AGENCY OF NUCLEAR ENERGY AND ADVANCED TECHNOLOGIES (AENTA)

Scientific Scope of the School
The School is dedicated to the comprehensive study of nuclear methods in a large spectrum of applications. The School will be organized in the form of several courses on the above-mentioned topics. Each course will start with an elementary introduction to the subject and its development up to the present day status of research in the corresponding field, explaining the possibilities of participating in the related scientific activities in the JINR laboratories and partner institutions of JINR member states and associated members.

The Joint Institute for Nuclear Research (JINR) is a large international intergovernmental scientific organization known all around the world for its outstanding contribution to fundamental physics. A significant complex of core facilities, such as research reactor and accelerators, allows JINR to conduct applied research and take part in environmental, life sciences and materials science projects.

JINR has established cooperation with about 1000 research centers and universities and annually organizes more than 40 international conferences and meetings. JINR employees publish about 1500 scientific papers and reports annually.

The **Life Sciences** part of the courses will include lectures on:

- radiopharmaceuticals production and nuclear medicine diagnostics and therapy
- physics and technology of hadron therapy of tumors
- modern radiation imaging detectors for PET and CT
- radiation biology and its applications in space research and radiation therapy
- radiation neuroscience
- astrobiology
- nanostructures applied to biomedicine

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The **Environmental Sciences** part of the course will be concentrated on:

- radioecological assessment of environment
- analytical techniques in environmental studies and nanotechnology
- new technologies of wastewater treatment

The **Materials Science** part of the course will be focused on:

- application of neutron scattering to soft matter research
- structural biophysics
- functional, complex, and nanocomposite materials

All lectures will be given by the scientists from JINR and JINR partner organizations.

Working language of the School is English.

NO WILL BE COLLECTED PARTICIPATION FEES.

Participation is available for students finishing their third (penultimate) year of Bachelor studies, Master, or PhD students.

The organizers provide the students from Latin America but Cuba with free accommodation in double rooms, meals, but do not cover health insurance. The transport from and back to Havana if proper is guaranteed. The reimbursement of air transport expenses is not anticipated, but can be considered on request.

Accompaniment of Latin American students by professors or scientific supervisors is encouraged. For them, within the framework of the school, it is planned to hold a parallel round table with scientists from JINR and Cuba. Organizers can book accommodations for 125 per single room and 100 per person for double occupancy.

The Cuban students and Cuban lecturers (in total 30 participants) accommodated on expenses of Cuban Research Programs Fund in the same all-included hotel and the transport from and back to Havana is guaranteed.

For more information:: https://indico.jinr.ru/event/4258/

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JOB OPPORTUNITIES

INTERNSHIP – QUALITY MANAGEMENT, OUTREACH AND TRAINING - (TAL-NSRW20231214-005)

Primary Location: Austria-Vienna-Vienna-IAEA Headquarters
Job Posting: 2023-12-19, 7:29:34 AM
Closing Date: 2024-01-07, 7:59:00 PM
Duration in Months: 12
Contract Type: Interns

Main Purpose

Reporting to the Head of the Radiation Safety Technical Services Unit, and under the guidance of Service Group Leaders and Quality Manager, the Intern provides technical assistance to safety-critical services in the field of individual and workplace monitoring, contributes to drafting explanatory and outreach materials on accredited laboratory methods and on knowledge of Quality Management in testing and calibration laboratories, and assists with training initiatives for Agency staff.

Functions / Key Results Expected

- Assist with updating the Agency's website for the Unit.
- Develop informational and promotional materials about the Unit.
- Develop a SharePoint site for the Unit.
- Assist with the development of instructional videos.
- Collaborate with individual and/or radiation monitoring specialists to develop specific and innovative education and training materials/courses for radiation protection and quality management.

To view requirements and more information: https://iaea.taleo.net/careersection/interns/jobdetail.ftl?job=TAL-NSRW20231214-005&tz=GMT-03%3A00&tzname=America%2FBuenos_Aires

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JOB OPPORTUNITIES

INTERNSHIP – RADIATION MONITORING - (TAL-NSRW20231214-007)

Primary Location: Austria-Vienna-Vienna-IAEA Headquarters
Job Posting: 2023-12-19, 7:09:59 AM
Closing Date: 2024-01-07, 7:59:00 PM
Duration in Months: 12
Contract Type: Interns

Main Purpose

The internship will support workplace monitoring and calibration services at IAEA Seibersdorf Laboratories, under the guidance of experienced radiation safety specialists. The scope of work will include assisting with routine provision of services; contributing to special projects related to training, radiation monitoring and calibration services; and assisting with the expansion and relocation of laboratories. As part of the development of own skills and competences, the intern will assist in analysis of data and preparation of technical reports.

Functions / Key Results Expected

- Develop weekly briefings and schedules for the provision of services.
- Assist with the expansion and relocation of laboratories.
- Contribute the calibration project, to request accreditation per ISO/IEC 17025 for calibrations of portable surface contamination and dose rate meters.
- Contribute to the development of innovative education and training material.

To view requirements and more information: **https://iaea.taleo.net/careersection/interns/jobdetail.ftl?job=TAL-NSRW20231214-007&tz=GMT-03%3A00&tzname=America%2FBuenos_Aires**

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JOB OPPORTUNITIES

INTERNSHIP – INDIVIDUAL MONITORING - (TAL-NSRW20231214-008)

Primary Location: Austria-Vienna-Vienna-IAEA Headquarters
Job Posting: 2023-12-19, 7:23:33 AM
Closing Date: 2024-01-07, 7:59:00 PM
Duration in Months: 12
Contract Type: Interns

Main Purpose

The internship will support individual monitoring of occupational exposure to ionizing radiation. As part of the development of knowledge and competence in a safety-critical context, the intern will gain practical work experience in an international environment by assisting in statistical data analysis and preparation of technical documents.

Qualifications and Experience

- University Degree - Health Physics or closely related disciplines.
- General knowledge of quantities and units for ionizing radiation (required)
- Proficiency in basic statistics, probability, and distributions (required)
- Good command of Microsoft Office applications (required)
- Attention to detail and accuracy (required)
- Knowledge of communication platforms and software (asset)

To view requirements and more information: https://iaea.taleo.net/careersection/interns/jobdetail.ftl?job=TAL-NSRW20231214-008&tz=GMT-03%3A00&tzname=America%2FBuenos_Aires

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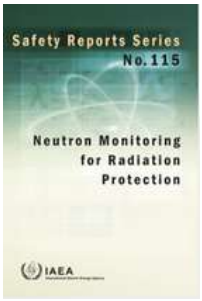
IAEA Occupational Radiation Protection Networks ORPNET

PUBLICATIONS

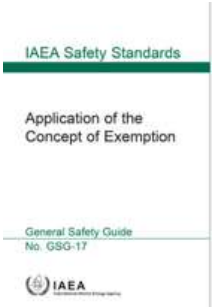
NEUTRON MONITORING FOR RADIOLOGICAL PROTECTION



This IAEA Safety Report describes neutron monitoring procedures and equipment that may be used for radiation protection in nuclear power production, medical and industrial applications, research institutions and civil air service. It provides guidance on measuring operational quantities of neutron radiation and practical advice for safely carrying out neutron radiation protection dosimetry, including methods for establishing traceability of those measurements to national standards. This publication is intended for designers and manufacturers of radiation monitors and personal dosimeters and radiation protection professionals who develop radiation protection standards or neutron monitoring programmes.

https://www.iaea.org/publications/15007/neutron-monitoring-for-radiation-protection

APPLICATION OF THE CONCEPT OF EXEMPTION



Intended for use by government officials, and those working for regulatory bodies and operating organizations, this publication will assist in the application of IAEA Safety Standards Series No. GSR Part 3 in relation to the concept of exemption of practices or sources within practices from regulatory control. It addresses the application of a graded approach to the concept of exemption through the use of generic exemption and specific exemption. It explains the concept of exclusion and its relationship to exemption and clearance. The recommendations provided in this publication are applicable to all facilities and activities that use, manufacture, process, trade or store radioactive sources or material containing either natural or artificial radionuclides. The Safety Guide primarily addresses exemption from regulatory control in planned exposure situations. Although, the concept of exemption is only applicable to planned exposure situations, guidance on the application of a screening approach for decision making in managing certain existing exposure situations is also provided.

https://www.iaea.org/publications/15293/application-of-the-concept-of-exemption

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APPLICATION OF THE CONCEPT OF CLEARANCE

Providing recommendations on the application of the concept of clearance for materials, objects and buildings that are to be released from regulatory control, this publication supports the application of the relevant requirements of IAEA Safety Standards Series No. GSR Part 3. It includes detail on the regulatory framework for clearance; the clearance process; the derivation of clearance levels; the application of clearance to solid materials, liquids and gases; generic clearance and specific clearance using activity concentration and surface contamination clearance levels. It also provides recommendations on the involvement of interested parties. Written for governmental officials, and those working for regulatory bodies and operating organizations, this publication will also be of interest to technical service providers in radiation protection.

The recommendations provided are applicable to facilities that use, manufacture, process or store radioactive material, such as nuclear power plants, research reactors, other nuclear fuel cycle facilities, facilities for the management of radioactive waste, industrial plants, medical facilities, research facilities, educational facilities and accelerators. The recommendations in this publication also apply to industries processing materials containing radionuclides of natural origin and to the management of material originating from remediation activities or from post- emergency situations.

https://www.iaea.org/publications/15291/application-of-the-concept-of-clearance

The Network for the Optimization of Occupational Radiological Protection in Latin America and the Caribbean (REPROLAM) is a non-profit, non-political, non-religious, and non-racial scientific and cultural society of unlimited duration. Its main objective is to promote the optimization of occupational radiological protection. REPROLAM aims to enhance academic and scientific cooperation among its members, with the goal of ensuring adequate radiological protection for workers.

Visit our website for more information.: **http://www.reprolam.com/**
How to contact us:: **reprolam2020@gmail.com**