

YUSEF HUSEIN, Ph.D.

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**Radiation Protection and Safety | Radiological Environmental Impact Assessment and Monitoring
| Nuclear Safety and Licensing | Risk Mitigating | IAEA | ALARA | Health Physics**

-----WORK EXPERIENCE-----

SENIOR RESEARCH FELLOW | Radiation Protection Unit

April 2022 – Present

[European Organization for Nuclear Research CERN, Switzerland](#)

- **Participating in the Radiological Environmental Impact Assessment of the Future Circular Collider (FCC):** Engaging in a comprehensive feasibility study for the FCC, focusing on radiation protection aspects and radiological environmental models. This involves the analysis of various radionuclide pathways and transport, dose calculations, risk analysis, and developing strategic mitigation measures to ensure adherence to international standards and guidelines, contributing to the responsible development of nuclear research and technology.
- **Participating in the FIRIA Project (Fire Induced Radiological Integrated Assessment):** Focusing on radiation protection aspects and radiological environmental models. Evaluating the release of radioactive substances to the environment from fires in different source terms in concerned facilities. Calculating the effective doses for bystanders and members of the public near the facility of concern and developing radiological models to reduce assessment conservatism while optimizing the process. Writing detailed analysis reports, presenting the results in technical and managerial project meetings, and participating in the documentation of FIRIA studies for internal and external committees and regulatory bodies for the host states.

RADIOLOGICAL ENVIRONMENTAL ENGINEER

July 2019 – April 2022

[Jordan Research and Training Reactor JRTR, Jordan](#)

- Conduct radiological environmental planning, monitoring, analysis, and reporting for the JRTR.
- Prepare Radiological Environmental Impact Assessment (REIA) reports, monitor environmental trends, and collaborate with stakeholders.
- Utilize computer codes to assess radiation dose and track plume movement from JRTR emissions.
- Ensure compliance with REMP (Radiological Environmental Monitoring Program) and operational permit requirements for JRTR effluents.
- Develop required procedures, subject to review by the Emergency Preparedness & Radiological Protection Manager, to be implemented by all personnel and activities within the reactor facilities.
- Collaborate with the environmental team of JAEC (Jordan Atomic Energy Commission) for radiological environmental monitoring and evaluation during normal operations and accident situations at the JRTR.

LECTURER | Moscow Engineering Physics Institute

Dec. 2014 – Aug. 2018

[National Research Nuclear University MEPhI, Russia](#)

- Demonstrated experience in teaching General Physics, Nuclear, and Radiation Physics, and Special Topics in Radiological Impact Assessment. Supervised and mentored Ph.D. students in an informal capacity.

-----EDUCATION-----

- **Ph.D. in Engineering Science (Nuclear Engineering)**
National Research Nuclear University MEPhI, Moscow
- **M.Sc. in Nuclear Physics and Technologies**
National Research Nuclear University MEPhI, Moscow
- **B.Sc. in General Physics**
AL-Albayt University, Jordan

-----TRAINING AND CERTIFICATES-----

- Radiation Protection Officer | licensed by Energy & Minerals Regulatory Commission JORDAN, 2020.
- Radioactive Source Security Professional | licensed by World Institute for Nuclear Security, 2020.
- Training of Trainers (ToT) | Arab International Academy (Jordan), 2021.
- Planning for Monitoring and Evaluation Course | Philanthropy University - USA, 2021.
- Creating Effective Personal Development Plans Course | Metropolitan School of Business - UK, 2021.
- Project Management Course | Oxford Home Study College-eLearning College-Oxford, 2021.
- Risk Management Course | Oxford Home Study College-eLearning College-Oxford, 2021.
- Self-Rescue Mask course | CERN, 2022.
- Radiation Protection course for Controlled Area | CERN, 2022.
- Radiation Protection – Awareness course | CERN, 2022.
- Emergency Evacuation course | CERN, 2022.
- First Aid - Life-Saving Actions course | CERN, 2023.

-----SKILLS-----

English – Fluent
Russian – Fluent
Arabic – Fluent
French – Elementary

Computing skills: Operating systems, MS-Office suites, Presentation software, Spreadsheets, Communication, and collaboration tools.
Nuclear engineering software: Ansys, NRCDOSE, EdaraCpp, MCNP, HotSpot, C++, Python, OriginPro, and CROM.

-----REFERENCES-----

Name	Organization	Email
Pavol Vojtyla	CERN	Pavol.vojtyla@cern.ch
Alalaween Hamdi	Oak Ridge National Laboratory	Alalaweenha@ornl.gov
Ayman Abu Ghazal	JAEC/JRTR	Ayman.abughazal@jaec.gov.io
Husam M. El-Nasser	AL-Albayt University	Hnasser@aabu.edu.jo
Pripachkin Dmitry	RosAtom Corporation	Dmrwer@mail.ru