

Nuclear Safety Officer in the Safety Office of the DEMO Central Team

Background

In the framework of the missions of the Safety Office, the establishment of the safety baseline is required for the DEMO development. The Nuclear Safety Officer will contribute to those missions in order to satisfy the project milestones and objectives.

Main duties and responsibilities

- Contribute to the tasks related to nuclear safety, occupational safety, radiation protection, security, and environmental impact studies in the preparation of safety files for the DEMO project
- Prepare the needed studies in support of safety analyses related to hazardous materials in routine, including security, for protecting the persons inside the facilities as well as the environment and the members of the public, minimizing wastes and releases;
- Contribute to the Work Package Safety, Assessment and Environment in managing safety tasks and supporting the fusion European laboratories in performing R&D activities in the nuclear safety field;
- Develop a multi-fluid model for the DEMO reactor and associated tritium transport phenomena;
- Develop a model for the DEMO PHTSs to estimate the production of ACP;
- Support the evaluation of the inventory of contaminants under normal operating conditions and estimate their potential release during accident sequences;
- Identifies the R&D on safety (confinement, radiation protection, waste, TBM) and for the relevant nuclear validation when needed;
- Contribute to establishing a nuclear safety culture in the DCT.

Required/desired qualifications and competencies

- University degree in a relevant Engineering / technical discipline.
 - Minimum 2 years' experience in nuclear safety.
 - Broad understanding of nuclear facility design, qualification, manufacturing, testing, and inspection processes and related codes and standards and industry best practices.
 - Ability to work effectively both independently and as part of a team.
 - Good interpersonal skills and excellent written and verbal communication skills in English
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Date of Job Vacancy: December 3rd , 2024

Application Deadline: December 20th, 2024

Full time position (100%)'

The Nuclear Safety Officer will work in Garching, Germany, and will report to the Head of the Safety Office, who is also the Work Package Safety Leader (WPSAE). Candidates who are interested in joining the DEMO Central Team and working remotely from the home lab are invited to apply as well; in this case regular visits/short secondment periods to Garching can be arranged.

The applicant will ideally already have a work contract with a EUROfusion Beneficiary or Affiliated Entity and will be seconded to the EUROfusion Programme Management Unit (PMU) in Garching, Germany. Otherwise, a work contract with one of the EUROfusion Beneficiaries or Affiliated Entities will have to be secured ahead of the secondment to the PMU. The application shall be sent by a supporting EUROfusion General Assembly member.

The EUROfusion secondment will be until 31st December 2025 and can be extended until 31st December 2027, subject to the extension of the EUROfusion Grant Agreement. However, the actual labour contract might be subject to the rules, regulations and conditions of the Beneficiary that employs the applicant.

EUROfusion strives for diversity and inclusion and explicitly encourages members of minority groups and females to apply for this position.

Please send your completed application, including CV, cover letter, and examples of your past-related work experience to: joelle.elbez-uzan@euro-fusion.org

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