EUROPEAN COMMISSION
JOINT RESEARCH CENTRE

**2023-PTT-GI4-FGIV-022269** **FG IV – Project Officer –Scientific- Nuclear Reactor Safety Analyst**

**POSITION FOR:**
Member of the contract staff FGIV – art. 3b of the Conditions of Employment of Other Servants

**WE ARE:**
As the science and knowledge service of the Commission, the mission of DG Joint Research Centre (JRC) is to support EU policies with independent evidence throughout the whole policy cycle.

The JRC is located in 5 Member States (Belgium, Germany, Italy, the Netherlands and Spain). Further information is available on the JRC website.

**The current vacancy is in Directorate for Nuclear safety and Security,** Reactor Safety And Components Unit of the JRC**.** The mission of the JRC Directorate for Nuclear Safety and Security is the implementation of the JRC Euratom Research and Training Programme, the maintenance and dissemination or nuclear competences in Europe to serve both "nuclear" and "non-nuclear" Member States. JRC Directorate G supports the relevant policy DGs and is a key partner in international networks and collaborates with international organisations and prominent Academia and Research Institutes.

The Reactor Safety And Components Unit is part of Department for Nuclear Safety and Asset Management within the Directorate. The major objective of the Department is to provide scientific support to the EU nuclear safety policy. The Reactor Safety And Components Unit contributes to technological innovation of nuclear reactor safety through experimental testing, numerical simulation and modelling.

**WE PROPOSE:**
We propose the position of Project Officer for scientific activities, whose responsibility will consist of carrying out and coordinate scientific and technical tasks in accordance with the objectives and priorities of the reactor safety and components Unit and its mission as defined within the Directorate for Nuclear safety and Security.
The Project Officer is expected to contribute to the development and implementation to the unit's activities accordingly to institutional and competitive projects and administrative arrangements with Policy DGs related to Nuclear Safety assessment and licensing of current and innovative reactors with particular emphasis to Small Modular Reactors (SMR) including Emergency Preparedness and Response. The range of tasks foreseen includes: performing analytical studies using appropriate numerical tools on current and new reactor system designs to assess their robustness in terms of performance and safety. Nuclear reactor safety analysis with emphasis on reactor physics, thermal-hydraulics and severe accident studies, addressing licensing practices, monitor of latest developments in nuclear safety, contribution to relevant community of practice and involvement in international networks. Model development as well as validation and benchmark exercises are part of the scientific work.

**WE LOOK FOR:**

We are looking for a dynamic candidate with a solid scientific background, a strong understanding of nuclear reactor safety and emergency preparedness and response and at least 2 years of experience in safety assessment of nuclear facilities, in nuclear engineering of power plants, in particular for design, licensing, operational safety and maintenance.

The successful candidate should have a proven capacity to handle scientific tasks in the field of nuclear safety assessment. She/he must be capable using numerical tools developed for safety analysis, have knowledge on new developments in the field and be capable of delivering operational support.

Knowledge in the use of MCNP, RELAP5, TRACE, MAAP or ASTEC or CFX tools is an asset. The candidate should preferably have experience in working in joint international projects, in managing international scientific collaborations, and professional experience and international scientific reputation in the relevant scientific field

The Candidate should show flexibility and adaptation to new developments as well as should have good inter-personal skills.

**Qualifications and competences:**

- Candidates should have a level of education which corresponds to completed university studies of at least three years attested by a diploma in relevant scientific/engineering fields and a minimum of 3 years' relevant professional experience; or, alternatively a doctoral diploma in a relevant scientific/engineering field.
- Have an English level at least equivalent to B2

**INDICATIVE CONTRACT'S DURATION:**
36 months initial contract with possible renewals up to maximum 6 years.

**PLACE OF WORK**:
Petten, the Netherlands

**ELIGIBILITY CRITERIA:**

Candidates for this contract agent post shall:
– (i) have passed a valid EPSO CAST selection procedure;
or
– (ii) be registered in the EPSO Permanent CAST
or
– (iii) be registered in the Specialised Call for Researchers (used mainly by the JRC).

With a valid application number to one of the above, you may then apply for this specific vacancy at JRC through its vacancy page.

**RECRUITMENT POLICY:**
The Joint Research Centre
• Cultivates a workplace based on respect for other people and the environment.
• Embraces non-discriminatory practices and equality of opportunity. In case of equal merit, preference will be given to the gender in minority.