EUROPEAN COMMISSION

JOINT RESEARCH CENTRE

2022-IPR-E2-FGIV-020709 **FG IV – Project Officer – Technological risks due to natural hazards**

POSITION FOR:
Member of the contract staff FGIV – art. 3b of the Conditions of Employment of Other Servants
http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=CONSLEG:1962R0031:20110101:EN:PDF

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 at: https://ec.europa.eu/jrc/

The current vacancy is in the Technology Innovation in Security Unit within the Directorate for Space, Security and Migration of the JRC.

The Technology Innovation in Security Unit aims to increase European competitiveness and resilience by research in technologies, standardization and harmonisation to enhance the protection of European networked infrastructures and to prevent hazards in industrial installations. Special emphasis is given to the protection of large scale European infrastructures, including the smart grid, the internet, mobile telecommunication networks and European space assets.

The vacancy is in a team providing scientific and technical support to Commission Services and Member States on the protection of industrial facilities and critical infrastructure against natural hazards. Many incidents have highlighted the vulnerability of technological systems, e.g. energy infrastructure, chemical industry or military assets to natural-hazard impact. Such impacts may also increase the risk of hybrid attacks. Since these activities provide society with indispensable goods and services, it is of strategic interest to ensure that they are protected and resilient.

WE PROPOSE:
A position as Project Officer who will contribute to enhancing the capacity of the EU to manage the risks to technological systems from natural hazards, including Natech risks.

More specifically, the candidate will carry out the following tasks:
- Improve the knowledge base to understand the current and future vulnerability of the EU's industry and critical infrastructure to natural hazards.
- Identify relevant risk parameters and improve or develop models for the assessment of these risks, including case studies.
- Collect and analyse natural hazard triggered incident data for industry and critical infrastructure to understand disruption patterns and dynamics and learn from past events.
- Develop and apply indicators for measuring the performance of industrial risk-management measures and systems with respect to natural-hazard impact.
- Maintain and apply in case studies the JRC's RAPID-N system for Natech risk analysis and mapping.
- Prepare science-based recommendations and guidance on adequate technological risk management for natural-hazard impact in collaboration with state and private actors.
- Engage government, industry, international partners (e.g. OECD, UN) and academia to strengthen technological risk governance and build capacity.

WE LOOK FOR:
The successful candidate should have a Ph.D. in engineering or physics or a minimum of 5 years of equivalent professional experience after the first university degree.

Expert knowledge of industrial or critical infrastructure systems and their protection is required.

Demonstrated experience in model development and risk analysis for technological systems is also required.

Experience in forensic (incident) analysis and natural-hazard damage assessment for industry or critical infrastructures is an asset, as is familiarity with Natech risk analysis and risk management.

Knowledge of GIS-based tools and Matlab is also an asset.

The ability to work in a multi-national team and a very good level of spoken and written English (B2) is required.

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

PLACE OF WORK:
Ispra (IT)

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 https://epso.europa.eu/documents/2240_en
or
- (iii) be registered in the specialised call for researchers https://ec.europa.eu/jrc/en/working-with-us/jobs/vacancies/function-group-iv-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: http://recruitment.jrc.ec.europa.eu/?type=AX.

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.