EUROPEAN COMMISSION

JOINT RESEARCH CENTRE

2021-IPR-GII7-FGIV-018849 **FG IV - Project Officer- Data scientist for nuclear safeguards, security and non-proliferation**

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 Nuclear Security Unit of the Directorate for Nuclear Safety and Security provides enabling research, technology and instruments for nuclear safeguards and security to inspection agencies, States and operators. Activities range from nuclear non-destructive analysis and process monitoring to containment & surveillance, verification and detection technologies.

In times of 'big data', the growing availability of data is not matched by a corresponding ability to make sense of data, favour understanding and inform decision-making and policies in a timely fashion. This is also true for nuclear safeguards, security and non-proliferation.

Further information is available at**:** https://ec.europa.eu/jrc/en/research-topic/nuclear-safeguards

WE PROPOSE:
The present position is for a data scientist in the Data Pole of the Nuclear Security unit, strengthening the Unit's activities on the side of Digital Transformation with applications in nuclear safeguards, non-proliferation and security analysis.

We look for an expert in the use of state-of-the art data analytics, statistical methods and off-the-shelves tools for business intelligence, focusing on data sources relevant for the domains of nuclear safeguards, non-proliferation and security. S/he will develop new sound and reliable methods as needed in the projects carried out in the unit.

The goal is to support the work of nuclear inspectors, analysts and policy officers by designing, developing and making available data sets, processing techniques, complete analytical products, methods and techniques that will respond to new questions relevant to our application domain. The expert will also focus on statistical analysis for anomaly detection in the nuclear safeguards domain to contribute to draw reliable and robust safeguards conclusions.

WE LOOK FOR:
Essential:

- Completed university studies of at least five years attested by a master diploma in a field relevant to the position (e.g. statistics, mathematics, computer science, data and information science, or equivalent);
- Ph.D. or at least 5 years professional experience in a field relevant to the position.

Advantage

- At least 5 years' experience in software development using relevant technologies such as SQL, R, Python or equivalent;
- At least 2 years' experience in developing data visualisation based applications;
- At least 2 years' experience in developing, evaluating and analysing machine learning based applications;

- Good knowledge of French or Italian languages.

We look for an enthusiastic, motivated and passionate colleague, with a strong problem-solving attitude, proven communication skills, the ability to work in a team, the capacity to take initiatives and to work autonomously. Interest in applying data and statistical skills in the activity domain of the unit and flexibility are key. A good command of English (B2), both oral and written 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.