



EUROPEAN COMMISSION

JOINT RESEARCH CENTRE

**2021-IPR-E1-FGIV-019508**

**FG IV - Programme Officer - Data scientist for the  
DRMKC support to the Science pillars of the Union  
Civil Protection Knowledge Network**

**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 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 Directorate for Space, Security and Migration, Disaster Risk Management Unit.

The European Commission's Disaster Risk Management Knowledge Centre (DRMKC) needs to strengthen work on risk data in order to properly fulfil its role in the framework of the newly established Science Pillar of the Civil Protection (UCP) Knowledge Network. In fact, the Green Deal is kicking off a rapid transformation in Europe and the Adaptation Strategy, the Mission on Climate Adaptation, the Sustainable Finance Directive, the reformed Common Agricultural Policy etc. will generate a wealth of risk assessment data - in a fragmented way. It is in the interest of the Commission to capture this data centrally, process it and make it available to Member States to exploit the data for national risk assessment, preparing for worst-case scenarios and covering financial risk exposure. The place to do so is the DRMKC and its Risk Data Hub, as already foreseen in the Climate Adaptation Strategy.

**WE PROPOSE:**

We are looking for a data scientist to help us to discover the information hidden in vast amounts of data that can support the decision making process in Disaster Risk Management. The primary focus will be in applying data mining techniques, performing statistical analysis, and building high quality prediction systems integrating data collected at different scales from local to regional and up to a Pan-European Scale.

The selected candidate will contribute to the assessment of the data and science landscape for the different DRM phases:

- S/he will gain an overview of all potential sources, identify the scope and the type of data required to fulfil the knowledge gap in understanding disaster risks, facilitate acquisition, storing and modelling of the data.
- S/he will undertake pre-processing of structured and unstructured data, analyze large amounts of information to discover trends and patterns, build predictive models and machine-learning algorithms and combine models through ensemble modelling.
- S/he will support in preparing analytical situation reports, scenario building, policy briefs and customizing them for the targeted audience (e.g. policy makers, operational bodies, academia, citizens).
- S/he will leverage information design concepts and principles to create compelling and effective charts, tables, presentations and other visuals that convey analytical results clearly and effectively.

**WE LOOK FOR:**

The ideal candidate has a data science background and experience in Knowledge Management in the field of Disaster Risk Reduction and with excellent communication and writing skills.

The following skills are essential:

- Experience in big data pre-processing, analysis, modelling and visualization
- Experience in dealing with geospatial information
- Understanding of machine-learning and operations research
- Excellent programming skills
- Proven experience in report writing to disseminate key data and findings to non-technical audiences.
- Ability to provide hands-on analytical support and be involved in day-to-day activities of the team.
- Good communication skills (written and spoken) in English (C1)

The following skills are useful:

- Experience in Disaster Risk Management
- Experience in risk assessment including multi-hazard risk assessment
- Capacity to translate
- Experience with multi-disciplinary teams
- The candidate should have a proven track record of peer reviewed scientific publications

**INDICATIVE CONTRACT'S DURATION:**

36 months initial contract with possible renewals up to maximum 6 years.

**PLACE OF WORK:**

Ispra (IT)

**RULES AND ELIGIBILITY:**

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](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 JRC

- 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.