



2022-IPR-E1-FGIV-021768

FG IV - Scientific Project Officer – Geospatial analysis

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 the Disaster Risk Management Unit of the Directorate for Space, Security and Migration, which provides scientific and technical support to EU policies addressing global security and crisis management. The unit is responsible for the Copernicus Emergency Management Service (CEMS) as well as the Disaster Risk Management Knowledge Centre and the Global Human Settlement Layer (GHSL).

The GHSL project produces new global spatial information, evidence based analytics and knowledge describing the human presence on planet Earth. It relies on the design and implementation of new spatial data mining technologies that allow automatic processing, analysis and knowledge extraction from large amounts of heterogeneous data including global, fine-scale satellite imagery, census data, or volunteered geographic information sources. This information provides essential input to the monitoring of progress in the implementation of international frameworks like the Sendai Framework for Disaster Risk Reduction, the Agenda 2030 for Sustainable Development, the New Urban Agenda and the Paris Climate Agreement.

WE PROPOSE:

A position as scientific project officer to contribute to the further development of spatial indicators characterising human settlements and its population based on the products of the Global Human Settlement Layer project.

Primarily S/he will develop, test and document modules for the production of spatial indicators integrating satellite-derived information, population data, and other geospatial information sources.

S/he will contribute to the scientific-technical reporting including the authoring of scientific articles and support the public dissemination of geospatial layers. S/he will be part of a team that is providing policy support in the field of regional and urban policies, disaster risk management as well as the management and further evolution of the exposure mapping component of the Copernicus Emergency Management Service.

Main tasks will include:

- Work with the GHSL data, often in combination with other data sources, to derive information in support to EU policies including disaster risk management, regional and urban policies, development cooperation and environmental protection.
- Further improve the available spatial indicators and develop new approaches largely based on open data.
- Contribute to the combined thematic analysis of GHSL data with other national, regional or global data and support the production of scientific and policy reports
- Support countries in the implementation of the Degree of Urbanisation

- Contribute to the scientific output and to the knowledge transfer activities through peer reviewed publications as well as by sharing outputs in the Disaster Risk Management Knowledge Centre

WE LOOK FOR:

A geospatial expert with a university degree (M.Sc. or comparable) in a relevant scientific area (geography, urban and regional planning, engineering, computer science or related areas) together with a minimum of 3 years of research experience or a Ph.D in the relevant scientific area.

The following skills are essential:

- Advanced experience in Geographic Information Systems (GIS) and spatial analysis
- Experience in remote sensing data handling and analysis
- Experience in handling and analysing large-scale spatially distributed datasets

The candidate should have a proven track record of peer reviewed scientific publications.

Any of the following skills are an advantage:

- Experience with image processing, AI and EO
- Experience in spatial indicator development
- Experience in statistical analysis
- Programming skills, in particular Matlab, Python
- Experience in the production of policy reports

Personal attributes:

- Good communication skills (verbal and written) in English (minimum B2)
- Good interpersonal skills with demonstrated ability to work in a team and be willing to learn and adapt to new tasks
- Ability to work to deadlines and pay attention to detail even under time pressure

INDICATIVE CONTRACT'S DURATION:

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

PLACE OF WORK:

Ispira (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/en/documents/call-expressions-interest-0>

or

– (iii) be registered in the specialised call for researchers https://joint-research-centre.ec.europa.eu/working-us/jobs-jrc/temporary-positions/contract-staff-members/function-group-iv/job-opportunities-research-fellows-european-commission_en (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.