



2022-IPR-D2-FGIV-021388

FG IV - Project Officer – Scientific Research – Water resources modeller

POSITION FOR:

Member of the contract staff FG IV – 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 Directorate for Sustainable Resources, Water and Marine Resources Unit. The mission of the Directorate for Sustainable Resources is to provide independent scientific evidence to support the development, implementation, evaluation and coherence of EU policies, mainly in the areas of agriculture and rural development, development cooperation, environment and climate change, blue growth and fisheries, the bioeconomy, industry and trade.

The Water and Marine Resources Unit provides scientific and technical support to Commission services. In particular, its mission is to contribute to address societal and economic challenges deriving from the evolving vulnerability of the European and global fresh water and ocean environments. To explore innovative solutions to sustainably manage water as a resource, as well as fisheries, aquaculture and other ocean resources. To carry out inter-disciplinary science promoting the integration of water in sectorial EU policies taking impacts of climate change into account – Further information: <https://ec.europa.eu/jrc/>

WE PROPOSE:

A position as project officer to carry out further development and application of the modelling system, specifically:

- Contribute to the development, improvement, calibration and validation of the JRC water resources model for the assessment of the impact of (EU) water policies, climate change, and socio-economic changes at a European and global setup.
- Contribute to the evaluation and comparison of modelled and reported water abstraction volumes, recalibrating the model to fit trusted reported values.
- Contribute to the evaluation of several future scenarios of water resources including climate change effects and the effect of policy as well as cost-benefits of allocation of water across different economic sectors, impacts of planned measures within the Water Framework Directive and related Directives, and address the Water Nexus by carrying out scenario analyses of a water-stressed European and global setup.
- Contribute to the maintenance of the hydrological model LISFLOOD, which is at the core of the flood and drought prediction systems in support of the Emergency Management Service and the Mechanism for European Civil Protection ((European Flood Awareness System (EFAS), European Drought Observatory (EDO), and Global Flood Awareness System (GloFAS)).

WE LOOK FOR:

A dynamic and highly motivated colleague with the following essential qualifications:

- A PhD (doctoral diploma) in the field of hydrology or a closely related field, or a university degree and 5 years of research experience after the university giving access to doctoral studies;
- Advanced knowledge of Python programming;
- Good knowledge of spoken and written English (B2 minimum is required).

The following will be considered as assets:

- Experience in the field of large-scale water resources modelling on high-performance computing and Linux systems.
- Experience in processing large spatial datasets in NetCDF.
- Experience with Geographic Information Systems, like ArcGIS.
- Familiarity with water resources models, like LISFLOOD and crop models, like EPIC.
- A strong publication record.

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

– (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.