

VACANCY NOTICE

Climate Data Processing Engineers (3 Posts)

EUMETSAT is Europe's meteorological satellite agency. Its role is to establish and operate meteorological satellites to monitor the weather and climate from space - 24 hours a day, 365 days a year. This information is supplied to the National Meteorological Services of the organisation's Member and Cooperating States in Europe, as well as other users worldwide.

EUMETSAT also operates Copernicus satellites on behalf of the European Union and provide data services to the Copernicus marine and atmospheric services and their users.

As an intergovernmental European Organisation, EUMETSAT has 30 Member States (Austria, Belgium, Bulgaria, Croatia, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, The Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom).

EUMETSAT is now inviting well qualified candidates from its Member States to apply for the following post:

POST: Climate Data Processing Engineers (3 Posts)

LOCATION: Darmstadt, Germany

**DURATION
OF**

CONTRACT: The initial contracts will be until 30 June 2021. Subject to available third party funding, the contracts may be extended.

BACKGROUND: Building on its headquarters, its network of Satellite Applications Facilities and cooperation with other satellite operators, EUMETSAT supports the development of climate information services through the rescue, re-calibration and re-processing of long series of satellite observations and the delivery and validation of the resulting climate data records.

Within the EUMETSAT Climate Services Team, the Climate Data Processing Engineers will develop and implement technical data processing for the generation and validation of EUMETSAT climate data records for a broad range of satellite instruments and data levels in support of the Copernicus Climate Change Service (C3S). This involves the development, implementation, maintenance and operation of production and validation systems.

DUTIES:

The main duties will be as follows:

- Development, implementation, maintenance and operation of:
 - Data processing systems (operational processors and processing chains) handling data from geostationary and polar orbit satellites for the generation of climate data records;
 - Automated quality monitoring/validation tools for climate products, building as far as possible on existing operational tools;
 - Data bases used for the generation of data records and product monitoring/validation;
 - Graphical online tools for data quality monitoring.
- Analysis of the quality of climate data records using quality monitoring procedures and other validation techniques and external data;
- Porting of prototype software, e.g., from IDL into C++/Fortran and/or Python;
- Standardising common tools and data locations for data processing;
- Compilation of technical documentation for the operational processors, processing chains, data formats, processing campaigns and batch system.

QUALIFICATIONS:

- University degree in a relevant computer or scientific discipline.

SKILLS AND EXPERIENCE:

In-depth knowledge and proven experience in:

- Software engineering for data processing, preferably for satellite data, including procedures for software verification and validation;
- Programming using C/C++ and Fortran 95 (and higher) programming languages as well as scripting languages, such as Python, Perl, Shell;
- Data processing of large data volumes, e.g., using grid computing including distributed resource management tools;
- Retrieving, handling and manipulating different data formats, e.g., NetCDF-4, HDF5, GRIB, BUFR and binary data;
- Database (relational/non-relational) implementation and maintenance preferably using PostgreSQL, Oracle, MongoDB;

- Good interpersonal skills and a proven ability to apply these to the interactions within a team and across teams in an international environment.

Experience in the following is advantageous:

- Good knowledge of standards, conventions and guidelines for the specification of meta-data for Earth Observation data;
- Development of web applications using JavaScript libraries/frameworks (e.g., jQuery, Ember, React), HTML, CSS, Python web frameworks (e.g., Falcon, Django, Flask, etc.) and web-based dynamic data visualisation (e.g., D3, plotly, etc.).

The official languages of EUMETSAT are English and French. Candidates must be able to work effectively in English and have some knowledge of French.

CLOSING DATE: 04 June 2018

Interviews are tentatively scheduled for week 28/2018.

Applications in English or French should be sent via our online form (attaching curriculum vitae and covering letter quoting Reference VN(18)28) at

www.eumetsat.int

This post is graded A2/A3 on the EUMETSAT salary scales. The minimum basic salary for this post is EURO 5,443.81 per month (net of internal tax) which may be negotiable on the basis of skills and experience. The salary scale provides for increments on the anniversary of taking up employment, and scales are reviewed by the EUMETSAT Council with effect from 1 January each year. In addition to basic salary, EUMETSAT offers attractive benefits. Further information, including salary details, is available on the EUMETSAT web site.

EUMETSAT is committed to providing an equal opportunities work environment for men and women.

Please note that only nationals of EUMETSAT Member States may apply. The EUMETSAT Convention requires that Staff shall be recruited on the basis of their qualifications, account being taken of the international character of EUMETSAT. EUMETSAT does not operate a nationality quota system but, in recruiting Staff members, the geographical distribution will be taken into account.