

Space Weather Modelling Coordinator

Job Req ID: 14656

Closing Date: 02 March 2022

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Vacancy Type: Fixed-Term

Date Posted: 02 February 2022

Vacancy in the Directorate of Operations.

ESA is an equal opportunity employer, committed to achieving diversity within the workforce and creating an inclusive working environment. We therefore welcome applications from all qualified candidates irrespective of gender, sexual orientation, ethnicity, beliefs, age, disability or other characteristics. Applications from women are encouraged.

This is a non-renewable post for a limited duration of 4 years and is classified A2-A4 on the Coordinate Organisations' salary scale.

Location

ESOC, Darmstadt, Germany

Description

Space Weather Modelling Coordinator in the Space Weather Office, Space Safety Programme Office, Directorate of Operations.

The Space Weather Office in the Space Safety Programme Office is responsible for the definition, architecture and implementation of the ESA Space Weather System and for the delivery of the corresponding services. The main responsibilities encompass the consolidation of SWE user requirements, the analysis and evaluation of existing assets and competencies, the architectural design as well as the development of the Space Weather System including software applications, required ground systems, hosted payloads and small satellite missions. The Space Weather Office is the custodian of mission requirements for large space weather missions and utilisation of the measurement data from all ESA space weather missions for space weather services.

You will report to the Head of the Space Weather Office and lead and coordinate development activities related to existing and new space weather nowcasting and forecasting models.

Duties

Your main tasks and responsibilities will be:

- leading identification and definition of the needs and requirements for the enhancement and development of models for improved space weather nowcasting and forecasting capability in Europe;
- preparing, initiating and conducting space weather modelling-related scientific and industrial activities entrusted to ESA under the Contribution Agreement between the European Union and ESA;
- preparing, initiating and conducting in-house and external scientific and industrial activities for space weather model development and enhancement within the Space Safety Programme and ESA Technology Programmes;

- providing expertise and scientific support to the utilisation of ground-based observational data in space weather modelling and enhancement of ground-based observational capability for future modelling needs;
- organising science workshops/conferences, supporting model development and related research;
- communicating research results in connection with ESA's space weather modelling activities, and acting as ESA ambassador at relevant events such as scientific conferences and user consultations;
- supporting the identification of and critical review of scientific challenges, space weather modelling user community requirements, and the interests and aspirations of those communities;

In performing these tasks, you will be expected to work as part of the team in the Space Weather Office and in close collaboration with colleagues in ESA, particularly in the Space Environments and Effects Section in the Directorate of Technology, Engineering and Quality (TEC).

Technical competencies

Knowledge of scientific discipline, including knowledge and vision of the space weather modelling area and development needs

Knowledge of space projects, including space weather instrumentation

Knowledge of the space weather data processing for operational models

Knowledge of the space weather services, nowcasting and forecasting

Knowledge of the relevant space weather scientific community

Behavioural competencies

Result Orientation

Operational Efficiency

Fostering Cooperation

Relationship Management

Continuous Improvement

Forward Thinking

Education

A Master's degree in the field of space physics or space environment modelling is required for this post. A PhD in one of these fields will be considered an asset.

Additional requirements

Particular importance will be attached to your experience and ability to coordinate and manage external scientific and industrial teams conducting studies and model development activities, to communicate, and to behave with tact, diplomacy and discretion. You should be familiar with current and future model development activities in Europe and globally. You should demonstrate at least 5 years' additional proven experience and credibility in the field of space weather modelling.

Other information

For behavioural competencies expected from ESA staff in general, please refer to the [ESA Competency Framework](#).

The working languages of the Agency are English and French. A good knowledge of one of these is required. Knowledge of another Member State language would be an asset.

The Agency may require applicants to undergo selection tests.

At the Agency we value diversity and we welcome people with disabilities. Whenever possible, we seek to accommodate individuals with disabilities by providing the necessary support at the workplace. The

Please note that applications are only considered from nationals of one of the following States: Austria, Belgium, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Luxembourg, the Netherlands, Norway, Poland, Portugal, Romania, Spain, Sweden, Switzerland, United Kingdom and Canada, Latvia, Lithuania and Slovenia.

According to the ESA Convention, the recruitment of staff must take into account an adequate distribution of posts among nationals of the ESA Member States*. When short-listing for an interview, priority will first be given to internal candidates and secondly to external candidates from under-represented or balance Member States*. (<https://esamultimedia.esa.int/docs/careers/NationalityTargets.pdf>)

In view of the limited duration of this post, internal candidates are strongly advised to contact their HR advisor before applying.

In accordance with the European Space Agency's security procedures and as part of the selection process, successful candidates will be required to undergo basic screening before appointment.

Recruitment will normally be at the first grade in the band (A2); however, if the candidate selected has no or no experience, the position may be filled at A1 level.

*Member States, Associate Members or Cooperating States.

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