

Antenna Engineer

Job Req ID: 15225

Closing Date: 21 July 2022

Publication: Internal & External

Vacancy Type: Permanent

Date Posted: 22 June 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 post is classified A2-A4 on the Coordinated Organisations' salary scale.

Location

ESOC, Darmstadt, Germany

Description

Antenna engineer in the Antenna and Infrastructure Section, Ground Station Engineering Division, Ground Systems Engineering and Innovation Department, Directorate of Operations.

You will be responsible for the evolution and sustaining of the ESTRACK network of antennas.

Duties

You will report to the Head of the Antenna and Infrastructure Section, and will have resident assignment at ESOC. In carrying out your duties, you will be involved in development and engineering activities related to ground-based antennas for the ESTRACK network, including antenna system and sub-system design, procurement and assembly, integration and on-site validation, and will be responsible for the following tasks:

- Leading and supporting the evolution and sustaining of the ESTRACK network;
- Providing support to other Directorates (D/NAV, D/TIA and D/EOP) in the area of ground-based antennas;
- Contributing to the development of innovative antenna architectures (e.g. phased arrays, antennas for radar applications and arraying of reflector antennas);
- Generating specifications and following up the development, procurement and validation of antenna systems and subsystems;
- Supporting antenna R & D activities;
- Conducting internal/external studies and prototyping in the field of ground-based antennas with the aim being to produce future operational solutions;
- Managing industrial contracts for the above.

Technical competencies

Antenna system and sub-system engineering

Antenna system calibration and measurement

Testing and validation of antenna systems and sub-systems

Site infrastructures requirements for antenna systems
Experience in electro-magnetic simulations of antenna using commercial tools and in developing dedicated tools in MATLAB/Python

Behavioural competencies

Result Orientation
Operational Efficiency
Fostering Cooperation
Relationship Management
Continuous Improvement
Forward Thinking

Education

A master's degree in electrical engineering is required for this post.

Additional requirements

Proven experience in ground-based antenna design, development and testing (over 5 years).

Excellent experience in preparing technical specifications and Statements of Work for the design, procurement/development and implementation of ground antenna systems.

Management experience of industrial contracts leading to validation at industry's premises and on site with handover to customers.

Other information

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

For further information please visit: [Professionals](#), [What we offer](#) and [FAQ](#)

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 Human Resources Department can also provide assistance during the recruitment process. If you would like to discuss this further please contact us email contact.human.resources@esa.int.

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, the 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 balanced Member States*.

(<https://esamultimedia.esa.int/docs/careers/NationalityTargets.pdf>)

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 conducted by an external background screening service.

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

*Member States, Associate Members or Cooperating States.