

Job Title: Microwave Engineer

Req ID 6281 - Posted 28/06/2018



EUROPEAN SPACE AGENCY

Vacancy in the Directorate of Technology, Engineering and Quality.

ESA is an equal opportunity employer, committed to achieving diversity within the workforce and creating an inclusive working environment. Applications from women are encouraged.

Post

Microwave Engineer

This post is classified A2-A4 on the Coordinated Organisations' salary scale.

Location

ESTEC, Noordwijk, The Netherlands

Description

Microwave Engineer in the Radio Frequency Equipment and Technology Section, Radio Frequency Payloads and Technology Division, Radio Frequency Systems and Payloads Office, Electrical Department, Directorate of Technology, Engineering and Quality.

The RF Equipment and Technology Section provides functional support to ESA projects and carries out technological research (R&D) in the field(s) of in the fields of Radio Frequency (RF) equipment and building blocks, active and passive components, and related design and characterisation tools

Duties

Reporting to the Head of Section and within the above technical fields, the postholder's main tasks and responsibilities will include:

- contributing to the design, development and performance evaluation of RF equipment, subsystems, components and technologies applicable to space and ground segments;
- providing expert technical support and consultancy to ESA projects, programmes and general studies throughout all project phases;
- contributing to the definition of technology development for the Agency's Technology programmes;
- defining technical requirements and statements of work for tasks to be performed by industry, from early conceptual studies to full hardware development;
- initiating and monitoring R&D activities covering long- and short-term needs;
- fostering new application areas for multidisciplinary activities, with emphasis on innovative concepts, cutting-edge technologies and system architectures;
- contributing to the development/use of Section-related laboratory facilities and analysis/simulation tools;
- monitoring applicable scientific and technological trends, collaborating with universities and research institutes to maintain state-of-the-art competence within ESA;
- supervising students and trainees for analysis, simulation and development of advanced concepts in the Section's technical domains;
- contributing to the dissemination of the results of the activities performed and the transfer of knowledge across the Agency.

Technical competencies

General background and specific experience in the technical domains covered by the position

Hands-on hardware experience

Experience with the design, development and application of relevant tools and methods

Understanding of related technologies, R&D trends and the industrial landscape

Project support experience in a relevant domain

Experience in the preparation of procurement activities for technology development and innovation (statements of work, proposal evaluation, etc)

Experience in the management and monitoring of industrial activities, including participation in reviews

Experience with Space Engineering Standards and their preparation and implementation

Behavioural competencies

Communication

Teamwork

Customer Focus

Innovation & Creativity

Problem Solving

Results Orientation

Planning & Organisation

Education

A Master's degree or equivalent qualification in microwave or RF electronic engineering is required.

Additional requirements

A good background in RF/microwave equipment and technologies for space applications and several years' work experience in these fields is required. A general knowledge of RF/microwave equipment, building blocks, techniques and technologies is also necessary.

A good understanding and experience of passive RF equipment (filters, IMUX/OMUX, ferrite devices, etc.) and related electromagnetic analysis and design tools are required.

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.

The closing date for applications is 23 July 2018.

If you require support with your application due to a disability, please 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 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 Member States. (<http://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.

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.