

# Job Title: Microwave Engineer

Req ID 8697 - Posted 03/04/2019



## 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 position is classified A2-A4 on the Coordinated Organisations' salary scale.

This position forms part of ESA's Advance Recruitment Scheme which is established to provide appropriate staffing resources when requirements materialise.

Appointments are therefore made for an initial duration of two years upon which the selected candidate may be appointed to a permanent post in the Agency.

### Location

ESTEC, Noordwijk, The Netherlands

### Description

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

The Radio Frequency (RF) Equipment and Technology Section provides engineering support to ESA projects and carries out technological research (R&D) in the fields of ground and space-borne RF equipment and its building blocks, RF active and passive technologies, time and frequency generation and distribution, RF testing and instrumentation and related design and characterization tools.

### Duties

Reporting to the Head of Section and within the technical fields described above, the main tasks and responsibilities of the post holder 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 roadmaps within the Agency's technology programmes;
- defining technical requirements and statements of work for the tasks to be performed by industry, from early conceptual studies to full hardware development;
- initiating and managing R&D activities covering both long- and short-term needs;
- fostering new application areas for multidisciplinary activities, placing emphasis on innovative concepts, cutting-edge technologies and system architectures;
- end-to-end laboratory activities as required in support to industry, ESA projects and programmes;
- monitoring applicable scientific and technological trends, liaising with universities and research institutes as required, in order to maintain a state-of-the-art engineering expertise in the Section's technical domains;

- 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.

Duties may also include supporting other activities within the post holder's field of competence.

### Technical competencies

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

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 with laboratory or field testing of relevant technical equipment

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

### Behavioural competencies

Communication

Teamwork

Customer Focus

Innovation & Creativity

Problem Solving

Planning & Organisation

### Education

A Master's degree or equivalent qualification in telecommunications or electronics engineering is required.

### Additional requirements

A good knowledge of RF active equipment for space applications (e.g. solid-state power amplifiers, transmit/receive modules, travelling-wave tube amplifiers, etc.), related design tools and field verification methods is required. Some years of professional experience in this domain will be considered an asset.

### 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 1 May 2019.

If you require support with your application due to a disability, please email [contact.human.resources@esa.int](mailto:contact.human.resources@esa.int).

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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, 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.