

# Job Title: Telecommunication Systems Engineer

Req ID 4821 - Posted 09/08/2018



## 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

Telecommunication Systems Engineer

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

### Location

ESTEC, Noordwijk, The Netherlands

### Description

Telecommunication Systems Engineer in the Telecommunication - TT&C Systems and Techniques Section, Radio Frequency Systems Division, Radio Frequency Systems and Payloads Office, Electrical Department, Directorate of Technology, Engineering and Quality.

The Telecommunication -TT&C Systems and Techniques Section provides functional support to ESA projects and carries out technological research (R&D) in the field(s) of telecommunication and TT&C systems including secure telecommunication link aspects.

### 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:

- providing expert technical support and consultancy to ESA projects, programmes and general studies in the field of telecommunication systems, digital signal processing and ground segment technologies throughout all project phases;
- participating in feasibility studies, project reviews and evaluation of procurement proposals;
- identifying critical development problems and assisting in their resolution;
- contributing to the definition of technology development requirements and work plans for the Agency's technology programmes;
- defining, 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;
- laboratory activities as required;
- monitoring applicable scientific and technological trends and maintaining a state-of-the-art expertise;
- 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

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  
Results Orientation  
Continuous Learning

## Education

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

## Additional requirements

In-depth knowledge of the following topics is required:

- computer simulation of the telecommunication link of complex systems and equipment
- advance signal processing techniques applied to digital transmissions and receptions
- architectural/algorithmic design, implementation and testing of telecommunication modems
- major satellite and terrestrial telecommunication standards
- satellite telecommunication systems and techniques.

Knowledge of digital signal processing techniques for TT&C and navigation applications is considered an asset.  
Several years of industrial work experience in a relevant field 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 10 September 2018.**

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 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. Priority will first be given to internal candidates and secondly to external candidates from under-represented Member States when short-listing for interview.  
(<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.