

## Job Title: Principal System Engineer

Req ID 3441 - Posted 21/02/2018



### EUROPEAN SPACE AGENCY

Vacancy in the Directorate of Telecommunications and Integrated Applications.

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

##### Principal System Engineer

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

#### Location

ESTEC, Noordwijk, The Netherlands

#### Description

The post holder will initially be responsible for technical management and support for all system activities related to the Iris Project, reporting functionally to the Iris Project Manager and hierarchically to the Head of the Future Telecom Programme Consolidation Section.

#### Duties

Leading the management of Iris Project system activities in accordance with its declared programme objectives.

- Leading implementation and operational demonstration of the end-to-end Iris' system including safety of life services and commercial oriented applications, in line with the air traffic management strategy and requirements set by SESAR and the EC.
- Leading end-to-end Iris system aspects and activities, encompassing requirements definition, system development and validation, performance verification, including implementation of pre-developments and validation tools.
- Coordinating implementation and validation of the Iris system segments against functional and performance requirements, including operational demonstration.
- Acting as technical interface for system aspects with relevant external bodies (e.g SESAR working groups, committees with industry).
- Acting as technical interface with European and global standardisation bodies, coordinating the required ESA and industry work in support.
- Supporting the Project Manager in leading contract(s) with industry in line with programme objectives.
- Providing regular technical and programmatic reporting to TIA management at all levels.

In his role the postholder will receive functional support from the assigned system team and specialised engineering support from the Directorate of Telecommunications & Integrated Applications and the Directorate of Technology, Engineering & Quality.

At the end of the Iris Project, the postholder will resume his/her duties within the Future Telecom Programme Consolidation Section.

Being part of the future Telecom Programme Consolidation Section, the postholder may be required to support the following activities:

- Initiating and managing prospect studies on mission concepts and system architectures, with the aim of detecting new market opportunities for satcom systems and services;
- Defining all elements related to the end-to-end mission/system architecture of new projects;
- Managing preparatory activities (technical and programmatic) of new telecom satellite programmes; interacting with key stakeholders (satellite operators/service providers, satellite manufacturing industry and ESA Members States Delegations);
- Contributing to preparation of ARTES FP and ARTES AT work plans for system-related activities;
- Contributing to definition of technology roadmaps and the technology knowledge base for the various satcom market segments;
- Acquiring and further improving end-to-end system engineering expertise for the development of new system concepts under new ESA projects/programmes, providing the Directorate with such expertise, coordinating system assessment tools and TEC support.

#### Technical competencies

Knowledge of industrial costs and schedule aspects

Complex project risk management processes

Knowledge of ESA and industrial development, verification and procurement processes

Ability to support the definition of a technology development strategy

Experience in ESA procurement processes and contract management as well as applied negotiation skills

System engineering and understanding of system requirements and interfaces

#### Behavioural competencies

Communication

Responsible Decision-Making

Results Orientation

Relationship Management

Self Motivation

#### Education

Applicants should have a Master's degree or equivalent qualification in telecommunications engineering.

#### 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 22 March 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).

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.