

Telecom System Engineer

Job Req ID: 13866

Closing Date: 21 December 2021

Publication: Internal & External

Vacancy Type: Permanent

Date Posted: 23 November 2021

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. 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

ESTEC, Noordwijk, Netherlands

Description

Telecom System Engineer reporting to the Telecom Satellite Project Manager, in the Partnership and Opportunity Satellite Programmes Division, Telecom Satellite Programmes Department, Directorate of Telecommunications and Integrated Applications (D/TIA).

MicroGeo is a new product line for geostationary satellites with a 500 kg-700 kg mass at launch developed by a European consortium as part of an ESA Partnership Project. Your first assignment will be to work on the MicroGeo project.

Duties

You will report to the Project Manager and be responsible for the satellite system development and European and Canadian procurements related to the Partnership Project. This will include the design and development, PFM manufacturing, integration, testing and in-orbit validation of the satellite. In performing your tasks, you will coordinate closely with the industry-led consortium.

Your tasks and duties will include:

- Evaluating and supporting trade-off assessments performed by industry in the process of defining the baseline system concept;
- Providing support to the other architects in the definition, trade-offs and implementation of optimum subsystem and building-block design solutions;
- Building and maintenance of the system budgets;
- Systematic involvement in the generation of equipment-level requirement specifications and interface definitions;
- Following-up the satellite mission and system analyses;
- Handling the external interfaces (launchers and launch site interfaces, mission and payload interfaces, space-to-ground interfaces including the TC&R architecture and the TMTC plan);
- Overseeing implementation of an FDIR strategy, operational concepts and corresponding products ,along with user requirements for the ground segment;
- Supervising the design, development, manufacturing and testing of all European-sourced system modules and equipment;

- Supporting the definition and performance of tests and verification programme at satellite system, sub- system and equipment level;
- Managing all MicroGeo system and lower-level reviews;
- Ensuring optimisation and completeness of the applicable requirements, including their consistency with the satellite system specifications; coordinating the tailoring to and subsequent application of ECSS and industry standards;
- Monitoring the schedule and risks of the relevant European procurements as well as the maintenance of related up-to-date technical budgets;
- Contributing to regular reporting to ESA management on satellite development;
- Coordinating specialised engineering support from the Directorate of Technology, Engineering and Quality in the appropriate areas of competence;
- You will be working in a cross-functional team which spans the Directorate's departments and is supported by technical experts from within the matrix structure. You will also be interfacing closely with the various project teams and the related industrial teams.

Technical competencies

Knowledge of Telecom technical domains and related R&D space industry trends

Systems engineering

Satellite telecommunications market

Knowledge of ESA and industrial development, verification and procurement processes

Behavioural competencies

Result Orientation

Operational Efficiency

Fostering Cooperation

Relationship Management

Continuous Improvement

Forward Thinking

Education

A master's degree in an engineering or a scientific discipline is required for this post.

Additional requirements

You have experience in working in a cross-functional team and in promoting innovation through a creative collaboration process.

- Strong problem-solving skills to deal with day-to-day operational challenges, together with demonstrated planning and organisational skills;
- Strong results orientation with the ability to set priorities and present practical solutions both orally and in writing;
- Ability to manage challenging situations proactively and constructively and to be customer-focused.
- Direct experience of working with a commercial telecommunications company and operator and/or a sound understanding of operating within the European Agency framework will be a distinct advantage.
- Experience in Public-Private Partnership projects would be 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.

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 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.

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.

[Apply now »](#)