

## ASTRIS Avionics Engineer

**Job Req ID:** 14201

**Closing Date:** 02 January 2022

**Publication:** Internal & External

**Vacancy Type:** Permanent

**Date Posted:** 29 November 2021

Vacancy in the Directorate of Space Transportation.

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

ESA Headquarters, Paris, France

### Description

ASTRIS Avionics Engineer in the Ariane 6 Missions and System Engineering Section, Ariane Launch System Engineering Division, Flight Programmes Department, Directorate of Space Transportation Systems.

ASTRIS is an Orbital Transfer Vehicle and a kick-stage add-on to the Ariane 6 launcher.

### Duties

The post is under the hierarchical responsibility of the Head of the Ariane 6 Missions and System Engineering Section and the functional responsibility of the ASTRIS Development Technical Officer.

The ASTRIS Avionics Engineer will act as project engineer for development of the ASTRIS Avionic and Software System, which includes integration of the avionics equipment, GNC, on-board software, data handling, and electrical and software assembly integration and testing.

Your duties will include:

- Leading exchanges with industry regarding avionics development activities, in close cooperation with the ASTRIS Mission and Integration Lead Engineer and ASTRIS Project Manager;
- Monitoring the progress of industry activities with respect to elements under your responsibility, and securing timely availability of the deliverable items as set out in the industrial activity plan and schedule;
- Ensuring the availability and coordination of the ESA resources and support (TEC) needed to carry out this task, as well as their interdisciplinary coherency. In particular, you will manage the specialist technical support for electrical power, EMC, thermal control, pyrotechnic devices and TT&C matters;
- Monitoring and controlling the industrial activities related to the development and maintenance of the ASTRIS mission database;
- Ensuring proactive monitoring of development risks and problem areas, addressing technical as well as programmatic factors (i.e. cost-at-completion, recurring production cost, schedule of first flight);

- Providing expertise to the ASTRIS Mission and Integration Lead Engineer with respect to engineering change assessment and quality processes (non-conformances and waivers);
- Providing support for all project and system engineering tasks within the ASTRIS team, as requested, including participation in the preparation and execution of ASTRIS Reviews and Key Points;
- Providing regular and ad hoc reporting to the ASTRIS Project Manager and to the line management on all aspects of avionics system and equipment development;
- Providing ad hoc support for specific Ariane 6 Launch System Development activities - typically support for Ariane 6 Launch System qualification activities and reviews, and participation in Launch System Combined Tests - in accordance with your specific competences and with priorities set by the line management.

### **Technical competencies**

Knowledge of relevant technical domains

Knowledge of ESA and industrial development, verification and procurement processes

ESA space systems development, verification and review processes and standards

Knowledge of the ESA standards and programmes

Experience in driving and supervising Industrial activities

Proven experience in supporting specific electrical AIT campaigns and of their technical and programmatic requirements in the Space Transportation domain.

### **Behavioural competencies**

Result Orientation

Operational Efficiency

Fostering Cooperation

Relationship Management

Continuous Improvement

Forward Thinking

### **Education**

You should have a Master's degree in space avionics engineering.

### **Additional requirements**

A minimum of seven years' experience in the development of launch system or spacecraft avionics.

You must have good overall avionics and software engineering skills in the greatest possible number of launcher and Orbital Transfer Vehicle disciplines, which include electrical power systems, data handling, communications, GNC, FDIR and flight software.

You must have good skills in the use of digital data treatment processes and tools.

You must be familiar with avionics and system qualification. Knowledge of the launch campaign environment and framework for both customer and launcher campaign is required.

Proficiency in tailoring development standards such as those used in previous space transportation system development (e.g. Ariane and VEGA management and design rules) and/or ECSS or other proven systems (ISO/IEC, MIL and NASA Standards) is an asset.

You must be familiar with methodologies related to use of off-the-shelf equipment and components.

You must demonstrate knowledge of various development life-cycles currently used by public and private actors in the space domain.

You must demonstrate your ability to focus on the overarching objectives of the development and assess the suitability of the industry work plan in that respect.

### **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 welcome people with disabilities. Whenever possible, we seek to accommodate individuals with disabilities by providing the necessary support in the workplace. The Human Resources Department can also assist during the recruitment process. If you would like to discuss this further please contact us 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, 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 or balanced 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.

\*Member States, Associate Members or Cooperating States.