EUROPEAN SPACE AGENCY

Experiment System Engineer

Job Req ID: 14654

Closing Date: 10 March 2022 Publication: External Only Vacancy Type: Permanent Date Posted: 10 February 2022

Vacancy in the Directorate of Science.

ESA is an equal opportunity employer, committed to achieving diversity within the workfo and creating an inclusive working environment. We therefore welcome applications from qualified candidates irrespective of gender, sexual orientation, ethnicity, beliefs, a 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

We are looking for an Experiment System Engineer for the Astrophysics & Internatio Collaboration Mission Section (SCI-FEA) within the PRODEX Office (SCI-FE), Fut Missions Department (SCI-F), Directorate of Science.

PRODEX is an optional programme dedicated to the development of scientific instrume and experiments for space science missions. The Astrophysics & International Collaborat Missions Section (SCI-FEA) is responsible for a subset of PRODEX activities, includ implementing and monitoring activities and developments related to astrophysics a fundamental physics science missions (e.g., ATHENA, LISA, ARIEL, etc.), as well as the involving international external partners, some of which have export control constrair Other domains within the Office may also be entrusted to the Section (e.g., Ear observation-related developments). Besides the PRODEX Programme, the Future Missic Department is responsible for preparing future missions, as well as defining a implementing Small/Fast missions within the Directorate of Science (e.g., SMILE, Cor Interceptor).

Duties

You will be responsible for implementing and monitoring several PRODEX activit assigned to you, with an emphasis on scientific space instrumentation development. I developments may involve industry and/or scientific institutes and may cover either a instrument or instrument contributions or subsystems. Specific duties include:

- establishing the overall work programme for the development of PRODEX experime within the scientific institutes in line with the instructions from the relevant delegation
- monitoring the technical, schedule and financial status of experiment development

- supporting the review of project implementation proposals and implementing n development activities as assigned;
- liaising between the relevant scientific institutes and industry for the duration of contracts; interfacing with internal ESA project teams or specialists technical/programmatic matters and with the relevant financial and procurem experts on financial and contractual matters;
- acting as the focal point for technical and administrative interfaces between PRODEX experiments and your Head of Section;
- regular reporting to your line manager on the status of the activities and any difficult encountered, including written input as requested.

Technical competencies

System Engineering and AIV

Hands-on hardware development experience

Design, development, and verification of Scientific (Space) Instrumentation including optic detection and electronics, mechanical and thermal aspects

Management of industrial activities including reviews

Knowledge of cost and schedule elements of hardware development contracts

Experience in managing scientific space hardware developments with multiple interfaces (scientific consortium, project, industry)

Behavioural competencies

Result Orientation
Operational Efficiency
Fostering Cooperation
Relationship Management
Continuous Improvement
Forward Thinking

Education

A PhD or master's degree in physics or space engineering, or equivalent qualification is required.

Additional requirements

You should also demonstrate an ability to:

- apply a systems-oriented approach to the specifics of each project and partners, tak into consideration technical, financial and schedule aspects;
- proactively engage and coordinate a diverse range of internal technical experts and work with external partners with the scientific institutes/industry, while consider programmatic constraints;
- anticipate problems and propose solutions bearing the overall goals of the PROD Office in mind;
- show flexibility in dealing with day-to-day operational challenges, while demonstrat strong planning and organisational skills;
- show a high level of motivation and dedication, taking ownership and act proactively;
- work independently while providing your line manager with regular feedback a asking for support where necessary;
- have excellent communication skills, both written and verbal to be able to pres complex technical issues clearly and convincingly

The working languages of the Agency are English and French. A good knowledge of one 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. Whene possible, we seek to accommodate individuals with disabilities by providing the necess support at the workplace. The Human Resources Department can also provide assistar during the recruitment process. If you would like to discuss this further please contact email contact.human.resources@esa.int.

Please note that applications are only considered from nationals of one of the follow States: Austria, Belgium, the Czech Republic, Denmark, Estonia, Finland, France, Germa Greece, Hungary, Ireland, Italy, Luxembourg, the Netherlands, Norway, Poland, Portuç Romania, Spain, Sweden, Switzerland, the United Kingdom and Canada, Latvia, Lithua and Slovenia.

According to the ESA Convention, the recruitment of staff must take into account adequate distribution of posts among nationals of the ESA Member States*. When shilsting for an interview, priority will first be given to internal candidates and secondly external candidates from under-represented or balanced Member State (https://esamultimedia.esa.int/docs/careers/NationalityTargets.pdf)

In accordance with the European Space Agency's security procedures and as part of selection process, successful candidates will be required to undergo basic screening bef appointment.

Recruitment will normally be at the first grade in the band (A2); however, if the candid selected has little or no experience, the position may be filled at A1 level.

*Member States, Associate Members or Cooperating States.