

Biomass Payload Principal Engineer

Job Req ID: 14066

Closing Date: 09 December 2021

Publication: Internal & External

Vacancy Type: Fixed-Term

Date Posted: 11 November 2021

Vacancy in the Directorate of Earth Observation Programmes.

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 is a non-renewable post for a limited duration of 4 years and is classified A2-A4 on the Coordinated Organisations' salary scale.

Location

ESTEC, Noordwijk, Netherlands

Description

If successfully recruited to this position, you will initially report to the Biomass Project Manager for all technical and programmatic matters. Upon delivery of the SAR instrument to the industrial Prime Contractor, you will be reallocated to the Biomass System and Mission Performance Section.

Duties

- Managing and monitoring all aspects of the instrument specification, design, implementation and testing, ensuring full compliance is maintained (and demonstrated) with Biomass requirements;
- Monitoring the industrial progress, reviewing the manufacturing and AIT of the instrument PFM hardware ensuring they remain consistent with Biomass requirements;
- Coordinating specialist support to ensure timely delivery of the instrument PFM hardware and problem resolution throughout all project phases until IOCR;
- Supporting NCR and RFD/RFW processing and resolution; Supporting instrument and satellite AIV activities;
- Providing instrument hardware and performance expertise to system performance engineering; Analysing mission performance impacts resulting from deviations discovered during instrument or system development and test;
- Supporting the identification and resolution of discrepancies between the instrument hardware and simulators and models;
- Ensuring that the operability of the instrument is fully compatible with the overall Biomass satellite operations, observability and availability requirements;
- Supporting the planning, organisation and execution of the in-orbit commissioning Phase E1; Monitoring the definition and execution of the instrument calibration;
- Participating in instrument and satellite project reviews;
- Providing early warning of potential problems, monitoring risks in the instrument development and instrument/satellite AIV campaign and proposing relevant mitigation actions;

You will be supported by experts from the Biomass team and from ESA's Technical Directorate, as appropriate, and will be expected to cooperate closely with other members of the Biomass Project Team.

Technical competencies

Excellent knowledge of SAR technology and instrumentation, in particular in P-band
Good knowledge and experience in space based SAR systems development (subsystems, architecture, interfaces and performance) including in-orbit commissioning and calibration
Minimum of 7 year's experience in relevant C/D Project Phases
Experience in digital hardware and backend SAR electronics

Behavioural competencies

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

Education

A Master's degree in an engineering discipline is 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.

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 at 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 view of the limited duration of this post, internal candidates are strongly advised to contact their HR advisor before applying.

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.