

Job Title: I-HAB System and Verification Engineer

Req ID 8832 - Posted 09/12/2019



EUROPEAN SPACE AGENCY

Vacancy in the Directorate of Human & Robotic Exploration Programmes.

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

I-HAB System and Verification Engineer

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

Location

ESTEC, Noordwijk, The Netherlands

Description

I-HAB System and Verification Engineer in the System Infrastructure Team, Exploration Systems Team, Exploration Group, Directorate of Human & Robotic Exploration Programmes.

Reporting to the System Infrastructure Team Leader, the postholder will work in coordination with the I-HAB System Engineer and with the I-HAB Project Manager for programmatic aspects.

I-HAB is a pressurised module, part of the Cislunar Gateway programme, capable of hosting crew, providing accommodation for equipment and volume for storage. It will also provide docking ports and resources for visiting vehicles and expansion of the Gateway. It will support pressurised and unpressurised utilisation (science and technology) and provide operation points for the external robotic arm. Internal robotic operations may also be supported. Launched either by NASA's SLS or a commercial launcher, the module will be transferred to cislunar orbit by Orion or by a dedicated service module.

Duties

The main duties will cover:

- ensuring tracking and implementation of engineering baseline configuration data at all times during I-HAB's lifetime (dwg, as-designed/as-built, configuration data, etc.);
- controlling the module's assembly, integration & verification (AIV) activities preparation, planning and execution (integration, verification campaign oversight, RoD, analysis, tests, auditing coordination);
- preparing, coordinating and overseeing execution of multilateral verification (with NASA, JAXA, CSA);
- participation in the testing and verification-related WGs with international partners;
- coordinating and chairing ad interim the ESA Verification Control Board (VCB) and the Joint ESA/industry VCB;
- coordinating the final closeout configuration execution.

Technical competencies

System Engineering and AIV

Knowledge of industrial costs and schedule aspects

Knowledge of ESA Space system development and PA standards

Complex project risk management processes

Knowledge of ESA and industrial development, verification and procurement processes

Behavioural competencies

Communication

Results Orientation

Relationship Management

Teamwork

Education

A Master's degree or equivalent qualification in engineering is required.

Additional requirements

Applicants should have acquired substantial experience in system engineering, in particular in AIV phase preparation and planning, combined with extensive experience in project verification methods and processes (VCB, VCR, etc.) and engineering baseline configuration control. They should be able to work in teams as strong team players in a multicultural environment. Being results-oriented and able to sustain a high-level workload, with peaks for specified events, are essential to perform well in the job.

The following will be considered as specific assets: experience in data networking and video, operations and working with international partners (NASA, JAXA, CSA, etc.).

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 06 January 2020.

If you require support with your application due to a disability, please 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 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.