

ExPeRT Technology Engineer

Job Req ID: 14782

Closing Date: 06 March 2022

Publication: Internal & External

Vacancy Type: Fixed-Term

Date Posted: 04 February 2022

Vacancy in the Directorate of Human and Robotic Exploration 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

HRE-E ExPeRT Technology Engineer reporting to the HRE-E Expert Team Leader.

HRE-E ExPeRT has a mandate to plan and implement preparatory system studies (Phase 0, Pre-Phase A, Phase A/B1) and technology development activities for all ESA exploration destinations, including LEO, cis- lunar space, the Moon and Mars.

HRE-E ExPeRT manages the development of Spaceship EAC, Spaceship ECSAT and similar low-TRL technology development initiatives and acts as a point of contact for the Directorate's technology preparation and matters related to ESA's Discovery, Preparation and Technology Development Programme (DPTP) and General Support Technology Programme (GSTP).

Duties

Your responsibilities will include:

- coordinating technology development needs for exploration missions to all E3P destinations (LEO, Moon, Mars) and maintaining the Exploration Technology Requirements database;
- preparing and maintaining requirement documents for the development of exploration mission technologies ("technology-push" and "mission-pull" requirements);
- interfacing with Member State delegates at European Utilisation Board (EUB) and ad hoc level regarding aspects of ExPeRT technologies;
- coordinating the definition of Technology Development Activities (part of the E3P work plan) for approval by EUB/PB-HME/AC/IPC;
- coordinating, with D/TEC and in the framework of TECNET-EXP, the technology activities related to exploration funded by DPTD and GSTP;
- helping HRE-E to define technology needs for future exploration missions in the relevant TECNET working groups and forums;
- participating in interagency and ESA internal technology working groups (e.g. ISECG-TWG);
- participating in TEBs and RFIs/CFIs for technology activities and milestone reviews;
- delivering exploration technology roadmaps (e.g. ISRU) and supporting HRE-E system studies in the definition of technology development plans;

- coordinating the definition, development and interface engineering of technology payload demonstrators for institutional missions and for missions of opportunity;
- interacting with the ESA-HRE Spaceship(s) for the definition and further maturation of R&D technologies for exploration;
- supporting the HRE-S (Strategy) and HRE-XI (Innovation) teams in technology-related tasks;
- leading the implementation of exploration technologies, in terms of planning and schedule, in collaboration with the ExPeRT project controller.

Technical competencies

Multi-disciplinary knowledge of technologies for Space

Knowledge of industrial costs and schedule aspects

Space Technologies development and PA standards

Knowledge of ESA and industrial development, verification, and procurement processes

Knowledge of the industrial landscape and ability to define technology development

roadmaps identifying future trends in technology requirements

Behavioural competencies

Result Orientation

Operational Efficiency

Fostering Cooperation

Relationship Management

Continuous Improvement

Forward Thinking

Education

A Master's degree in engineering is required.

Additional requirements

You should also have the ability to:

- manage challenging situations proactively and constructively;
- represent the Agency vis-à-vis industry and government agencies.

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 or balanced 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.

*Member States, Associate Members or Cooperating States.