

Job Title: Space Resources Engineer

Job Requisition ID 10788 - Posted 09/10/2020



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 Space Resources Engineer

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

Location
ESTEC, Noordwijk, The Netherlands

Description

Space Resources Engineer, in the Commercialisation & Innovation Team, E3P Programme Management Team, Directorate of Human & Robotic Exploration Programmes. The Innovation and Commercialisation Team leads the definition and coordinates the implementation of all HRE cross-sectoral innovation initiatives as outlined in the E3P Innovation Plan. This includes, in particular, delivery of the E3P Space Resources Plan, establishment of ISS and post-ISS Low-Earth Orbit platform-based commercial services and promotion of non-ESA funded demand for such services, as well as delivery of a comprehensive lunar communication and navigation service in coordination with D/TIA and D/NAV.

Duties

You will report to the Innovation and Commercialisation Team Leader, and will be responsible for coordinating the development and implementation of the E3P Space Resources Delivery Plan. Your main responsibilities will encompass the following activities:

- Leading the monitoring of progress in delivering the ESA Space Resource Strategy, as well as regularly updating it, taking into account the evolving international and European context and stakeholder community inputs.
- Leading the definition and implementation of related ESA-funded ground-based research and supporting the establishment and operations of the European Innovation Centre for Space Resources.
- Implementing activities and assigned studies aimed at integrating space resources into future space exploration mission architectures and supporting the identification of related cooperation opportunities with European institutions and international partners.
- Analysing the space resources value chain and economic impacts as well as identifying opportunities for engaging new organisations in ground- and space-based research and development activities. This includes the identification and assessment of potential commercial applications derived from space resources related investments in research and development.
- Acting as secretary of the ESA Space Resources Steering Group.
- Establishing and managing partnerships with European and international organisations aimed at advancing the challenge-driven Space Resources Strategy.
- Leading the definition and implementation of stakeholder community building and engagement actions.
- Identifying knowledge gaps and critical technologies for extraction and mining of space resources and establishing and maintaining an overall technology maturation plan.
- Establishing and implementing a comprehensive approach to managing space resources related knowledge.
- Monitoring the international and European policy and legal framework for space resources and assessing implications for ESA activities.

In performing these tasks, you will work closely with the ESA internal innovation network built across all Directorates, the ESA team for Science in Space, experts from the ESA Technical Directorate, Members of the E3P Spaceships initiative and Technical Officers implementing space resources related study and development activities across ESA.

Technical competencies

Ability and demonstrated experience in defining and successfully implementing innovation strategies
Multidisciplinary knowledge of area of responsibility
Knowledge of the relevant industrial ecosystem in Europe

Behavioural competencies

Planning & Organisation
Teamwork
Customer Focus
Relationship Management
Innovation & Creativity
Systems & Broader Business Thinking

Education

A Master's degree in engineering, science, economic or business administration is required.

Additional requirements

Candidates are further required to have extensive knowledge of:

- European and international space exploration programmes;
- In-depth knowledge of space resources related research and development;
- Proven track-record of successfully managing innovation projects and initiatives and establishing strategic partnerships.

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 08 November 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, Latvia 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 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.