

Job Title: Deep Space Exploration Scientist

Req ID 9241 - Posted 19/03/2020



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 **Deep Space Exploration Scientist**

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

Location ESTEC, Noordwijk, The Netherlands

Description Deep Space exploration Scientist, in the SciSpacE Team, Research and Utilisation Group, Directorate of Human & Robotic Exploration Programmes.

You will support scientific utilisation in future human exploration missions beyond low-Earth orbit, with emphasis on the Gateway, a human-tended platform in the lunar vicinity. Your primary role will be to provide project and study scientist support to ESA's scientific activities on the Deep Space Gateway. This will be built up in two phases during the 2020s by the International Space Station international partners: ESA, NASA, JAXA, CSA and Roscosmos. In Phase 1, which runs up to around 2025, a minimum configuration is established to support early human access to the lunar surface. Research on the Gateway in this phase will be characterised by rapid development and constrained capabilities. Limited crew time will be available for utilisation but the majority of science data will be gathered when the crew are not present. Phase 2 should see expansion of the Gateway, and with this enhanced capabilities for utilisation. The emphasis for you will be on supporting development and utilisation of payloads for flight in Phase 1, whilst preparing for scientific utilisation of the Gateway in Phase 2.

Focus areas for research to be conducted on the Gateway, in particular in Phase 1, include:

- radiation and its biological effects
- astrobiology
- cosmic dust
- space plasma physics

Duties Reporting to the SciSpace Team Leader, your primary duties will include:

- science management of science and research activities associated with ESA payloads and research on the Gateway together with international partners;
- leading science definition for Gateway payloads and research activities within ESA including preparing and maintaining scientific requirements in coordination with international partners;

- providing scientific expertise and support to development of ESA elements of the Gateway and associated technology developments and tracking the expected scientific performance;
- coordinating associated science teams and chairing associated meetings with them, committees and working groups;
- advising project managers on technical and operational aspects that may affect Gateway ability to meet science objectives;
- providing scientific input and guidance to execution of mission operations, crewed and uncrewed;
- representing the interests of the European scientific community, organising activities related to its participation in research on the Gateway;
- preparing reports for presentation internally/externally, including to the ESA advisory structure;
- providing support to other ESA studies or projects linked to the science of human and robotic exploration;
- actively pursuing personal scientific research, participating in research activities;
- supporting ESA outreach, communication and education activities in planetary and space science and exploration, promoting ESA's activities and scientific results to a variety of audiences, including the general public.

Technical competencies

Understanding of the current state of scientific knowledge at the given destination and an awareness of priorities for future research

Experience with experiments and payloads flown on crewed or uncrewed space platforms

Experience of the organisation of international scientific projects or campaigns

Experience of the management of scientific teams

Research/publication record

Behavioural competencies

Ambassadorship

Communication

Relationship Management

Problem Solving

Teamwork

Education

You should have a PhD in life sciences, physical sciences, space sciences, or a closely related discipline.

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 16 April 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 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.