

EUROPEAN SPACE AGENCY

Vacancy in the Directorate of Science and Robotic Exploration

The European Space Agency is an equal opportunity employer and encourages applications from women

POST

Descent Module Control and Data Management Systems Engineer in the ExoMars Project Division, Projects Department, [Directorate of Science and Robotic Exploration](#).

This post is classified in the A2–A4 grade band of the Coordinated Organisations' salary scale.

LOCATION

ESTEC, Noordwijk (Netherlands).

DUTIES

The ExoMars Project manages two missions planned for launch in the 2016 and 2018 Mars planetary transfer windows. This post will be primarily concerned with the second mission presently planned for launch in 2018.

The Descent Module Control and Data Management Systems Engineer is responsible for all system aspects related to the Descent Module Control and Data Management System, consisting of contributions to the Russian-provided Descent Module such as the Computer and the Radar Doppler Altimeter. The postholder is responsible for ensuring the coherence of a complex system with many technical, operational and organisational interfaces. The incumbent will report to the ExoMars Entry, Descent and Landing (EDL) Demonstrator Module Manager and will assist in the implementation of the 2018 mission Descent Module System contributions in accordance with the approved interface budgets and schedule requirements.

Within the project guidelines and constraints set, the postholder's areas of responsibility will include:

- establishing the functional architecture for each of the ESA avionics contributions to the Descent Module and maintain the requirements set associated to the functional elements and interfaces;
- monitoring Descent Module system budgets and ensuring that the ESA avionics contributions to the Descent Module meet the design constraints and that performance is compatible with agreed interfaces of the Descent Module system;
- monitoring the technical interfaces between the European industrial team and the project team located within Roscosmos/Lavochkin;
- developing and maintaining, in close cooperation with the ExoMars Payload and Assembly Integration & Verification (AIV) Manager, the verification of the design and flight hardware/software of the ESA avionics contributions to the Descent Module;
- monitoring the technical progress and milestones of the industrial contracts associated with the ESA avionics contributions to the Descent Module, particularly those related to computer and radar, ensuring that technical and programmatic issues are identified and reported to the EDL Demonstrator Module Manager in a timely manner;

- in cooperation with the ExoMars Product Assurance and Safety Office, ensuring that proper product assurance practices are applied during the manufacturing, test and integration phases;
- participating in Tender Evaluation Boards and Project Reviews;
- participating in, and providing support to other areas of the Project where experience can be applied.

The Descent Module Control and Data Management Systems Engineer will be assisted by specialist engineers from the Directorate of Technical and Quality Management (D/TEC) as well as from available expertise within the Project.

QUALIFICATIONS

Applicants should have a Master's degree or equivalent qualification in aerospace engineering, with specialisation in a technical discipline such as computer technology, radar technology or guidance and navigation control systems. Experience in flight of spacecraft is required and specific experience in the development of scientific spacecraft missions is an asset. A demonstrated ability to apply a multi-disciplinary approach in the context of a complex international multi-team environment is an important attribute for this post.

Previous involvement in the development and verification of ESA spacecraft would also be considered an asset.

Candidates are expected to demonstrate:

- a results-oriented approach to work in a complex project environment
- a strong capacity for planning and organising tasks
- good communications skills
- a clear aptitude for working in a project team

The working languages of the Agency are English and French. A good knowledge of one of these languages is required. Knowledge of another Member State language would be an asset.

CLOSING DATE

The closing date for applications is **3 Mars 2015**.

Applications from external candidates for this post should preferably be made [online](#) from the ESA website (www.esa.int/careers). Those unable to apply online should submit their CV to Human Resources, ESTEC, Keplerlaan 1, 2201 AZ Noordwijk ZH, The Netherlands.

ESA staff members wishing to apply for this post should fill in the [Internal Application Form](#) and email it to [Apply2ESTEC](#).

The Agency may require applicants to undergo selection tests.

Under ESA Regulations, the age limit for recruitment is 55. Please note that applications are only considered from nationals of one of the following States: Austria, Belgium, the Czech Republic, Denmark, Finland, France, Germany, Greece, Ireland, Italy, Luxembourg, the Netherlands, Norway, Poland, Portugal, Romania, Spain, Sweden, Switzerland, the United Kingdom and Canada.

Priority will first be given to internal candidates and secondly to external candidates from under-represented Member States.

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.