

Job Title: AOCs and Pointing Systems Engineer

Req ID 4782 - Posted 02/02/2018



EUROPEAN SPACE AGENCY

Vacancy in the Directorate of Technology, Engineering and Quality.

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

AOCs and Pointing Systems Engineer

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

Location

ESTEC, Noordwijk, The Netherlands

Description

AOCs¹ and Pointing Systems Engineer in the AOCs¹ and Pointing Systems Section, GNC, AOCs¹ and Pointing Division, Systems Department, Directorate of Technology, Engineering and Quality.

The AOCs¹ and Pointing Systems Section provides functional support to ESA projects in the technical field of AOCs¹ and carries out technological research in competitive, innovative and high-accuracy control systems, attitude sensors and magnetic actuators..

Duties

Reporting to the Head of Section and within the technical fields described above, the main tasks and responsibilities of the post holder will include:

- providing expert technical support and consultancy to ESA projects, programmes and general studies in the field of in the field of AOCs and pointing systems (incl. AOCs equipment and AOCs implementation and verification) throughout all project phases;
- participating in feasibility studies, project reviews and evaluation of procurement proposals;
- identifying critical development problems and assisting in their resolution;
- contributing to the definition of technology development requirements and work plans for the Agency's technology programmes;
- defining, initiating and managing R&D activities covering both long- and short-term needs and addressing both AOCs-enabling concepts and hardware technology (star trackers, sun and earth sensors, gyroscopes and accelerometers, magnetometers, magnetic torquers, etc.);
- fostering new application areas for multidisciplinary activities, placing emphasis on innovative concepts, cutting-edge technologies and system architectures;
- laboratory activities for the evaluation and prototyping of new AOCs, pointing systems and attitude sensors designs as required;
- monitoring applicable scientific and technological trends and maintaining a state-of-the-art expertise; contributing to the dissemination of the results of the activities performed and the transfer of knowledge across the Agency.

Duties may also include supporting other activities within the post holder's field of competence.

Technical competencies

General background and specific experience in the technical domains covered by the position

Hands-on hardware experience

Understanding of related technologies, R&D trends and the industrial landscape

Project support experience in a relevant domain

Experience with laboratory or field testing of relevant technical equipment

Experience in the preparation of procurement activities for technology development and innovation (statements of work, proposal evaluation, etc)

Experience in the management and monitoring of industrial activities, including participation in reviews

Behavioural competencies

Teamwork

Customer Focus

Innovation & Creativity

Problem Solving

Results Orientation

Planning & Organisation

Education

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

Additional requirements

Applicants for this post should have at least eight years' experience in the development and procurement engineering of a range of AOCs hardware units and/or the development of satellite AOCs subsystem (preferably with exposure to the full development cycle from design to launch).

Preference will be given to those with strong expertise in two or more of the following areas related to the position:

- AOCs hardware technology development, starting from low TRL, up to hardware qualification
- AOCs hardware procurement
- AOCs subsystem design, testing and verification (incl. control design, analysis and simulation)
- in-orbit AOCs operations
- AOCs software and spacecraft avionics

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 25 February 2018.

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. Priority will first be given to internal candidates and secondly to external candidates from under-represented Member States when short-listing for interview.

(<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.