

# Job Title: AOCS (Attitude & Orbit Control Systems) and Pointing Systems Engineer

Job Requisition ID 10821 - Posted 16/10/2020



## 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 (Attitude & Orbit Control Systems) and Pointing Systems Engineer

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

### Location

ESTEC, Noordwijk, The Netherlands

### Description

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

The Section provides functional support for space missions in Earth observation, navigation, science, telecommunications and integrated applications. It carries out technological R&D, harmonisation and standardisation in AOCS and pointing, focusing on subsystem competitiveness, improvement and innovation for performance, robustness and process.

### Duties

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

- providing expert technical support and consultancy to ESA projects, programmes and general studies in AOCS and pointing systems (AOCS design/verification incl. applicative software and FDIR, equipment procurement) throughout all project phases;
- participating in feasibility studies, project reviews and evaluation of procurement proposals;
- identifying critical development problems, assisting in their resolution;
- contributing to definition of technology development requirements and work plans for the Agency's technology programmes;
- defining, initiating and managing R&D activities covering long-/short term needs, addressing AOCS enabling and enhancing concepts and techniques;
- fostering new application areas for multidisciplinary activities, placing emphasis on innovative concepts, cutting-edge technologies and system architectures;
- laboratory activities for evaluation and prototyping of new AOCS solutions;
- monitoring applicable scientific and technological trends, maintaining state-of-the-art expertise;
- contributing to dissemination of the results of activities performed and the transfer of knowledge across the Agency.

Duties may also include supporting other activities within your 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 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 in control and aerospace engineering.

## Additional requirements

You should also have at least eight years' experience in satellite AOCS subsystems development (preferably with exposure to the full design-to-launch development cycle) and in procurement engineering for a range of AOCS hardware units.

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

- AOCS subsystem design, testing and verification (incl. control design, analysis and simulation)
- Research studies conduct in AOCS functional, robustness and performance fields
- In-orbit AOCS operations
- AOCS software and spacecraft avionics
- AOCS development for 'New Space' systems and small satellites missions
- Advanced control and estimation techniques
- Machine learning techniques

## 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 13 November 2020.**

If you require support with your application due to a disability, please email [contact.human.resources@esa.int](mailto:contact.human.resources@esa.int).

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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 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.