

AOCS/GNC Sensors Engineer

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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. For this purpose, we welcome applications from all qualified candidates irrespective of gender, sexual orientation, ethnicity, beliefs, age, disability or other characteristics. Applications from women are encouraged.

Post

AOCS/GNC Sensors Engineer

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

Location

ESTEC, Noordwijk, The Netherlands

Description

AOCS/GNC Sensors Engineer in the AOCS/GNC Sensors Unit, GNC, AOCS & Pointing Division, Systems Department, Directorate of Technology, Engineering & Quality.

The Unit is in charge of developing new AOCS (Attitude and Orbit Control Systems) and GNC (Guidance Navigation and Control) sensors. Such sensors include star trackers, gyroscopes, accelerometers, IMUs, magnetometers, Sun and Earth sensors, hybrid navigation systems, 3D cameras, optical navigation sensors. Actuators such as wheels and CMGs are developed in cooperation with another department. The Unit is also in charge of developing, maintaining and operating the Division laboratory facilities in order to support divisional R&D activities and project investigations.

Duties

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

- Defining, initiating and managing R&D activities covering both long- and short- term needs and addressing the development, modification or qualification of AOCS/GNC sensors and actuators;
- Monitoring applicable scientific and technological trends and maintaining state-of-the-art expertise in the area of inertial sensors, optical sensors, Sun/Earth sensors, magnetic or inertial actuators;
- Laboratory activities aimed at providing independent verification of R&D results or specific Project

Support;

- Contributing to the definition of technology development requirements and work plans for the Agency's technology programmes;
- Providing expertise to support ESA projects within your area, in relation with colleagues in the other entities of the Division;
- Contributing to Unit activities and support in the domain of the dissemination of the results of the activities performed, in-orbit analyses, lessons learned and knowledge management.

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

Experience with laboratory and field testing of relevant technical equipment

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

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

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

Behavioural competencies

Result Orientation

Operational Efficiency

Fostering Cooperation

Relationship Management

Continuous Improvement

Forward Thinking

Education

A Master's degree in Electronics, Mechanical or Aerospace Engineering.

Additional requirements

Proven experience in AOCS/GNC sensors, their related development & procurement activities including detailed design & qualification process.

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

- Experience in electronics design & analyses;
- Radiation effects in space electronics;
- Previous experience in R&D laboratory environment,
- Understanding of Spacecraft System Design and Spacecraft Operations,
- Hardware development for 'New Space' systems.

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 6 May 2021.

At the Agency we value diversity and we welcome people with disabilities. Whenever possible, we seek to accommodate individuals with disabilities by providing the necessary support at the workplace. The Human Resources Department can also provide assistance during the recruitment process. If you would like to discuss this further please contact us at 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. (<https://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.