

**Job Req ID:** 12066  
**Agency:** ESA

## Young Graduate Trainee for ALTIUS Instrument Performance Modelling and System Performance Simulation



### EUROPEAN SPACE AGENCY

Young Graduate Trainee Opportunity in the Directorate of EO Programmes.

ESA is an equal opportunity employer, committed to achieving diversity within the workforce and creating an inclusive working environment. We therefore welcome applications from all qualified candidates irrespective of gender, sexual orientation, ethnicity, beliefs, age, disability or other characteristics. Applications from women are encouraged.

#### **Post**

**Young Graduate Trainee for ALTIUS Instrument Performance Modelling and System Performance Simulation**

This post is classified F1.

#### **Location**

ESTEC, Noordwijk, The Netherlands

#### **Our team and mission**

ESA's ALTIUS space mission aims to develop, launch and operate a limb sounder based on a small satellite. The main mission objective is monitoring of the distribution and evolution of stratospheric ozone at high vertical resolution. Secondary objectives include extension of the observations into other parts of the atmosphere and covering the measurement of concentration vertical profiles of other atmospheric species as well as aerosol extinction vertical profiles. It will fly a versatile optical instrument intended to image the Earth's limb in the near-UV, visible and near-infrared spectral regions, in combination with an agile platform based on the PROBA bus, ensuring a small, autonomous, multimode mission for atmospheric observations in multiple sounding geometries. Observation modes include bright limb, solar and stellar occultation.

Our ESA Team, composed of three Sections (Instrument, System and Platform), is a versatile group encompassing engineers and scientists. We are a rather agile group characterised by internal cohesion and a strong sense of having a common goal.

Candidates are encouraged to visit the ESA website: [www.esa.int/ESA](http://www.esa.int/ESA)

#### **Field(s) of activity/research for the traineeship**

You will contribute to:

- a) modelling activities of the instrument performances (reporting to the ALTIUS Instrument Section);
- b) executing cross-validations of the industry-developed System Performance Simulator (reporting to the ALTIUS System Section).

#### **Technical competencies**

Knowledge of relevant technical domains

Relevant experience gained during internships/project work

Breadth of exposure coming from past and/or current research/activities  
Knowledge of ESA and its programmes/projects

### **Behavioural competencies**

Result Orientation  
Operational Efficiency  
Fostering Cooperation  
Relationship Management  
Continuous Improvement  
Forward Thinking

### **Education**

You should have just completed, or be in your final year of, a university course at Master's level in a technical or scientific discipline.

Specialisation in optical engineering, focusing on optical system performance modelling and simulation aspects, will be considered an asset.

### **Additional requirements**

You should have good interpersonal and communication skills and should be able to work in a multi-cultural environment, both independently and as part of a team.

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.

During the interview motivation and overall professional perspective/career goals will also be explored.

### **Other information**

For behavioural competencies expected from ESA staff in general, please refer to the [ESA Competency Framework](#).

**The closing date for applications is 21 March 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](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, and the United Kingdom. Nationals from Latvia and Slovenia, as Associate Member States, or Canada as a Cooperating State, can apply as well as those from Bulgaria, Cyprus, Lithuania and Slovakia as European Cooperating States (ECS).

Priority will first be given to 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