

**Job Req ID:** 12029  
**Agency:** ESA

## Young Graduate Trainee for Engineering Support for University students' Gravity-related Experiments



### EUROPEAN SPACE AGENCY

Young Graduate Trainee Opportunity in the Director General's Services.

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 Engineering Support for University students' Gravity-related Experiments**

This post is classified F1.

#### **Location**

ESTEC, Noordwijk, The Netherlands

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

The ESA Academy, which is part of the ESA Education Office, is the Agency's overarching programme for university students from ESA Member States, Canada, Latvia and Slovenia. Through a tailored transfer of space know-how and interaction with space professionals, the Academy takes students through a learning path that complements their academic education.

The ESA Academy operates two interconnected pillars of activity: Hands-on Space projects, which enable students to gain first-hand experience of the end-to-end development of space-related projects (e.g. small satellites, experiments on a variety of platforms reproducing different levels of gravity conditions or of weightlessness conditions, experiments to be flown on sounding rockets, experiments to be operated on-board the International Space Station), and a Training and Learning Programme, which offers a portfolio of space-specific training sessions.

The ESA Education Office works in close cooperation with specialists from ESA and industry, and from university departments and other research organisations.

Information on the activities of the ESA Education Office can be found at <http://www.esa.int/Education>.

Candidates are encouraged to visit the ESA website: <http://www.esa.int>

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

You will help coordinate hands-on activities and experiments for university students related to microgravity and hypergravity platforms. Working closely with the facility operators and with specialists, you will help select experiments proposed by university student teams, and follow up their projects throughout their lifecycle (concept, design, development, testing, experiment campaign, data analysis).

In particular, you will:

- be involved in the preparation, coordination and delivery of training workshops;
- follow up experiment projects throughout design, development and testing;
- help organise progress meetings and project reviews to verify the experiments' readiness;
- assist with logistical arrangements for the experiment campaigns;
- contribute to the successful execution of the campaigns;
- ensure proper follow-up of the analysis of the experiment results.

You will provide support to the following programmes:

- the Drop Your Thesis! programme, where university students have the opportunity to perform microgravity experiments in the ZARM drop tower facility in Bremen, Germany;
- the Fly Your Thesis! programme, whereby university students can perform microgravity experiments aboard Novespace's A310 parabolic flight aircraft in Bordeaux, France;
- the Spin Your Thesis! programme, which gives university students the opportunity to perform hypergravity experiments in ESA's Large Diameter Centrifuge at ESTEC, Netherlands.
- the Spin Your Thesis! – Human Edition programme, which enables university students to conduct human physiology experiments on a human centrifuge.
- the Orbit Your Thesis! programme, where university students are able to conduct small experiments on-board the International Space Station, using the ICE Cubes facility.

You may also be asked to contribute to other student activities and projects run by the Education Office.

### **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 an aerospace/aeronautical engineering discipline.

### **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 28 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