

Job Title: Young Graduate Trainee for Space Transportation Mechanical Engineering

Req ID 8601 - Posted 16/04/2019



EUROPEAN SPACE AGENCY

Young Graduate Traineeship Opportunity in the Directorate of Space Transportation.

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

Young Graduate Trainee for Space Transportation Mechanical Engineering

This post is classified F1.

Location

ESRIN, Frascati, Italy

Our team and mission

The Mechanical Engineering Team of the Vega and Space Rider Development Programme:

- Manages the design, development and qualification of Structures, Mechanisms, Propulsion and Pyrotechnique activities of the VEGA Space Transportation System (including VEGA launcher in exploitation, VEGA-C launcher for Larger Payloads, SSMS for Smaller Payloads, Spacer Rider for Payloads Return, VENUS for Higher Orbits and VEGA-E for future evolutions).
- Manages the system design, development and qualification of the SSMS for VEGA-C, targeting the fulfilment of the commercial exploitation needs.

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

Field(s) of activities

The Young Graduate Trainee (YGT) will support and contribute to:

- The SSMS development for the Vega-C Launcher System, in particular with the follow-up of the system aspects concerning the SSMS requirements, design, development, qualification, assembly, integration and testing up to flight model delivery;
- The consolidation of the standardisation aspects concerning the various products of the Vega Space Transportation System, including Vega C, SSMS, Space Rider, Venus and Vega E;
- Selected tasks in the frame of Mechanical Engineering within the above mentioned Vega Space Transportation System products currently under development;
- Preparation of the Vega SSMS Proof-of-concept flight, in particular for the assessment of the qualification status of the institutional payloads with respect to the Vega requirements, to cross check the coherence with the mission preparation activities until the flight date and to contribute to the treatment of any particular technical issues related to institutional payloads.

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

Self Motivation
Communication
Continuous Learning
Cross-Cultural Sensitivity
Teamwork

Education

Applicants should have just completed a University course at Masters Level (or equivalent) in a technical or scientific discipline with specialization on Mechanical Systems and with background on the Structures and Mechanisms domain.

Additional requirements

The following will be considered an asset:

- Technical background on Space Engineering
- Knowledge of Space Transportation Systems, in particular of Launchers domain
- Knowledge of Space System Engineering methodologies
- Familiarity with structural analysis engineering tools
- Motivation for:
 - System engineering
 - Space structures
 - Test engineering

Applicants must be fluent in English and/or French, the working languages of the Agency. A good proficiency in English is required.

In addition to the above competencies, applicants should demonstrate good interpersonal skills and the capacity to work both independently and as part of a team.

During the interview the candidates' 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 2 May 2019.

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, and the United Kingdom. Nationals from Slovenia, as an Associate Member, or Canada as a Cooperating State, can apply as well as those from Bulgaria, Cyprus, Latvia, 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