

Job Title: Young Graduate Trainee for Assessment of EEE Component Reliability in Space Environment

Req ID 8972 - Posted 13/12/2019



EUROPEAN SPACE AGENCY

Young Graduate Traineeship Opportunity 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

Young Graduate Trainee for Assessment of EEE Component Reliability in Space Environment

This post is classified F1.

Location

ESTEC, Noordwijk, The Netherlands

Our team and mission

Under the direct authority of the Director of Technology, Engineering & Quality, the Head of the Product Assurance & Safety Department is responsible for the establishment and implementation of the ESA policy, requirements and standards on quality. The Department is responsible for the provision of required expertise and support services to ESA projects, support Directorates and research activities in the Product Assurance and Safety areas, applied to all elements of space systems (ground, onboard), including hardware, software and human. Those areas include product assurance management, technical risk management, dependability, safety, quality assurance, EEE components, parts materials and processes assurance, with engineering support from the Directorate's other Departments, expertise and laboratories.

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

Field(s) of activity

The Radiation Hardness Assurance & Component Analysis Section is one of three Sections of the Technical Reliability & Quality Division in the Product Assurance & Safety Department.

The Section's main responsibility area is to provide direct and indirect engineering support to ESA projects and European industry in the fields of EEE component radiation effects and reliability assessment. Its activities are strongly lab-oriented and it is responsible for the day-to-day operation of the Division's components laboratory.

During the traineeship, you will be involved in the following:

- Supporting the preparation of constructional analysis and failure analysis tests on EEE components including analysis of standards and procedures for reliability assessment of EEE parts for space applications.
- Supporting the preparation of radiation test campaigns including developing test set-up and subsequent data analysis (with emphasis on TID, DD and SEE) on EEE components. Operation and development of best industrial practices for the use of pulse laser testing to simulate the effects of space radiation on microelectronics devices.

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

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

Additional requirements

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. In addition, you should demonstrate good interpersonal skills and the capacity to work both independently and as part of a team. During the interview your 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 12 January 2020.

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