Job Title: Young Graduate Trainee for Frequency Management

Req ID **3941** - Posted **19/01/2018**

EUROPEAN SPACE AGENCY

Young Graduate Traineeship Opportunity in the Directorate of Operations.

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 Frequency Management
This post is classified F1.

Location
ESOC, Darmstadt, Germany

Our team and mission

The YGT will be part of the Frequency Management Office, Mission Operations Department.

The Frequency Management Office within the Mission Operations Department of the Directorate of Operations is responsible for managing the RF spectrum of ESA missions. This involves coordinating ESA satellites with those of other organizations, coordinating the network of ESA Earth stations with terrestrial systems sharing the same frequency bands, and conducting studies aimed at providing a stable frequency access scenario for flying, currently under development and future satellites. Additionally, the office is responsible for registering ESA satellites and stations with the International Telecommunication Union (ITU).

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

Field(s) of activities

The Young Graduate Trainee (YGT) will be part of the Frequency Management Office and will assist the Office in the coordination among space agencies, in the negotiations between ESA and the frequency regulator of the station Host Country, and in the analysis of future International Telecommunication Union (ITU) frequency allocations. In particular, the candidate is going to be involved in the following activities:

- Radio Frequency interference analysis and international coordination of ESA satellites with other agencies' satellites.
- Support to the ITU filing of ESA satellites.
- Domestic and international coordination of the ESA Deep Space Stations (Cebreros in Spain, Malargue Sur in Argentina, New Norcia in Australia) with existing and planned terrestrial links.
- Computation of terrestrial propagation losses around the ESA stations network (Deep Space and near-Earth) at various frequency bands and interference analysis with other systems under consideration in the same bands.
- Support to the studies for ITU WRC-19 decisions.

In general, the tasks assigned to the Young Graduate Trainee will require familiarizing with ITU regulations and recommendations as well as international standards for radio frequency and modulation of satellite systems. This traineeship opportunity will also require familiarization with a suite of radio frequency assessment software tools.

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, or be in their final year of a University course at Masters Level (or equivalent) in a technical or scientific discipline.

Additional requirements

Basic knowledge of link budgets and propagation is considered an asset.

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, 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 04 February 2018.

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 UK, or Slovenia as an Associate Member, Canada as a Cooperating State, 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