

Traineeship Opportunity for “Young Graduate Trainees”

Reference	Specialist Area	Duty Station	Closing Date
ESA/YG-ESRIN(2014)008	Ground Station Antenna Engineering	ESRIN	14 December 2014

Overview of the Division's mission

The EO Ground Segment Infrastructure & Operations Management Division in the Ground Segment & Mission Operations Department of the Directorate of Earth Observation Programmes is responsible for the operations management of the end-to-end EO data flow from user requests to delivery of data and products. This includes operational validation integration, operations and maintenance of the Services to Users, the Mission Planning functions, the Ground Segment facilities of receiving stations, archives, processing centres, the coordination facility, their operational networks, interfaces and security and all related systems and tools. The Division also supports the development of new systems as required by the other Divisions.

Overview of the field of activity proposed

With the increasing bitrate in the X-band LEO to Ground links, it is becoming more and more important to assess the quality of the ground stations in order to ensure a proper link margin. The proposed activity consists in the survey and analysis of the current systems and associated link budgets, with a particular emphasis on the considered margins, and on the methods to measure the quality factor (G/T) of an X-band antenna system.

The final objectives of the activity will be to analyse the current trend for link requirements and to propose a standard method for G/T measurement for 7 to 12 m class antennas working in X-band.

Educational and other requirements

Applicants should have just completed, or be in their final year of a University course at Masters Level (or equivalent qualification) in Telecommunications Engineering and Electromagnetics.

Applicants should possess system thinking capabilities. They should have good communication and interpersonal skills with the ability to work effectively and cooperatively in a diverse and international team environment.

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

How can I apply?

Please fill in the [online](#) application form.
Please note that only one application may be submitted for the YGT Scheme.

The YGT Scheme is open to recently qualified young men and women who are nationals of one of the following states:
Austria, Belgium, the Czech Republic, Denmark, Finland, France, Germany, Greece, Ireland, Italy, Luxembourg, the Netherlands, Norway, Poland, Portugal, Romania, Spain, Sweden, Switzerland, and the UK, or Canada as a Cooperating State, Estonia, Hungary, Latvia and Slovenia as European Cooperating States (ECS).