

Traineeship Opportunity for “Young Graduate Trainees”

Reference	Field of specialisation	Duty Station	Closing Date
ESA/YG-ESOC(2016)013, REV.1	ICT Security	ESOC	30 January 2017

Overview of the Division's mission

The Security and Specialised Services Division is responsible for the management and coordination across all ESA sites of all activities related to the technical IT infrastructures and the ICT security roles. These responsibilities include identification of new solutions for the technical IT infrastructure systems and services and management of technical IT infrastructure in support of customer directorates.

Overview of the field of activity proposed

Like any other organization, ESA is regularly facing cyber security threats. These threats and the resulting incidents are typically dealt with in a reactive manner. Recent advances in machine learning give rise to the prospect of predicting cyber security incidents, i.e., one or more parameters of: origin, target, time, attack vector. ESA intends to stay ahead of this trend to better focus preventive measures as well as to reacting faster.

The proposed activity shall review and evaluate the existing technologies and their technology readiness level for applying it at ESA. Based on this first assessment, the Young Graduate would be tasked with the development of evaluation criteria and of a prototype learning and prediction system.

The activity will allow for gathering comprehensive insights into all areas of ESA's IT systems as well as into real-world cyber security. It will also expose the incumbent to ESA's space mission environment and its specific traits.

Educational and other requirements

Applicants should have just completed a University course at Masters Level (or equivalent) in an Engineering or scientific field. Good knowledge of information security is a key asset. In addition, good knowledge of machine learning paradigms and algorithms is paramount.

Applicants 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.

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, Estonia, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Luxembourg, the Netherlands, Norway, Poland, Portugal, Romania, Spain, Sweden, Switzerland, and the UK, or Canada as a Cooperating State, Bulgaria, Cyprus, Latvia, Lithuania, Slovakia and Slovenia as European Cooperating States (ECS).