

Training Opportunity for “Young Graduate Trainees”

Reference	Specialist Area	Duty Station	Closing Date
ESA/YG-ESOC(2004)003, rev.1	Software Engineering for Ground Data System Software Infrastructure	ESOC (D)	15 July 2005

Overview of the Division missions

The Division is responsible for the design, implementation and maintenance of Mission Control Systems (MCS), spacecraft simulator and Ground Station Back-end infrastructure software. These are large and complex software systems, highly interactive, real time driven by satellite data flow, working in a distributed environment. These systems are used in all ESA Control Systems and Ground Stations and are based on the state of the art software engineering technology such as, UNIX/Linux, Object Oriented Design, C++, CORBA, XML and Java.

The Division has developed a new MCS infrastructure (called SCOS-2000) that each new mission uses to develop its dedicated MCS.

Overview of the field of activity proposed

The selected candidate will work in collaboration with Technical Officers (TOs) in charge of infrastructure definition, specification, implementation, acceptance and delivery of MCS, Simulator and Ground Station Back-end infrastructure software. The types of tasks assigned to the candidate will include:

- study of the ESA / ESOC operational environment and of the functionality and architecture of the principal infrastructure software systems,
- involvement in the team activities. This may include analysis and elaboration of system requirements, subsystems development, preparation and participation to tests campaign for official acceptance testing of new deliveries, multi-systems integration verification and collaboration with mission data systems implementation teams,
- study research in the area of new software development methodologies and CASE tools.

Required Education

Masters degree in Engineering or Informatics. Knowledge of the UNIX/Linux, Object Oriented Design, UML, Java or C++ is fundamental. Knowledge of CORBA and XML technologies would be an advantage.

High flexibility is required to cope with the multi-subject / multi-project environment. Large autonomy and good written and oral command of English are essential.

How can I apply?

Please fill in the [online](#) application form.

*The YGT Scheme is open to recently qualified young men and women who are nationals of one of the following States:
Austria, Belgium, Denmark, Finland, France, Germany, Greece, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom, or Canada as a Cooperating State, and Hungary as a European Cooperating State (PECS).*