

Traineeship Opportunity for “Young Graduate Trainees”

| Reference | Field of specialisation | Duty Station | Closing Date |
|------------------------------|--|--------------|-------------------------|
| ESA/YG-ESRIN(2015)001 | Earth Observance Information Governance | ESRIN | 15 December 2015 |

Overview of the Division’s mission

The Ground Segment and Mission Operations Department is responsible for the management, design, coordination and operation of the ESA Earth Observation payload data ground segment infrastructure and non-ESA missions, and for the Phase E management of the ESA missions. The Earth Observation Payload Data Ground Segment (PDGS) Operation Division is responsible of systems deployed at a number of facilities dedicated to the acquisition, archiving, processing and dissemination of data from Earth Observation Missions.

In order to operate and maintain the PDGS, the Directorate of Earth Observation Programmes procures services from Facility Operators. The PDGS operations and maintenance are carried out to fulfil the achievement of EO mission objectives as expressed in relevant mission plans, and namely the operations management of the end-to-end data flow from user requests to delivery of data and products.

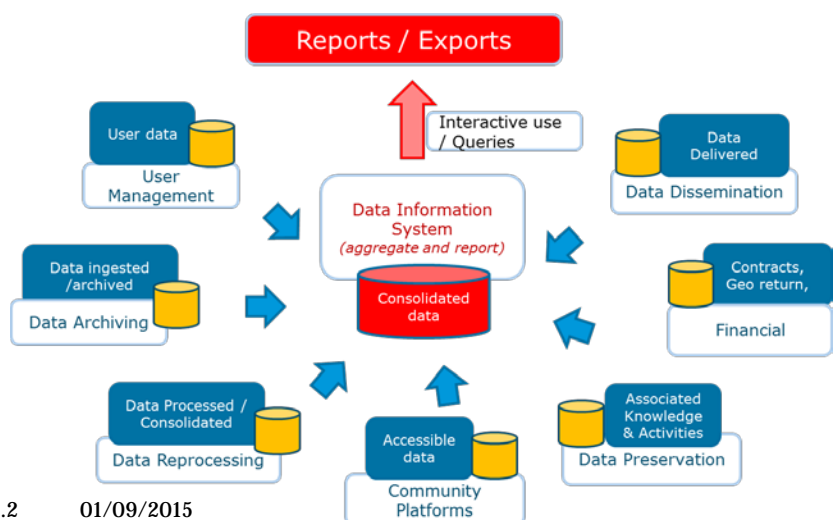
Overview of the field of activity proposed

The PDGS Operation Division is responsible of providing online data and information services to the technical and scientific earth observation communities. This is achieved by means of the ESA EOP Web Sites (e.g. <https://earth.esa.int/>) that are responding to the growing request of accessing to data. The provision of the data to the final community is achieved through the deployment of internal services for the consolidation, re-processing, archiving and preservation of the data. The Earth Observation data, either in raw or processed format, is managed, stored and treated by different systems in the different domains. This data represent an asset for the Agency and there is the need of an overall information system able at providing end-to-end information on the data itself and the value that the organisation adds to the data, for the benefit of Management and Operations. This is including:

- coherent information on the nature and amount of data entrusted to the organisation and its operational status (completeness, location, etc.)
- coherent information on what data has undergone what "treatment" (in the broad sense) in the various services provided and for whose benefit.

The traineeship opportunity is offered in the domain of Data Information Governance for the constitution of a Data Information System (DIS) that shall allow the aggregation of information coming from specific services for a later use in ad-hoc or standard reporting at operational, financial and management level.

The Young Graduate Trainee (YGT) shall initially analyse the payload data ground segment and describe use cases for the above data information system. Each service currently deployed provides specific information, that needs to be joined into a centralised environment. By the correlation of the different information a complete end-to-end reporting is achieved. The reports are expected to provide input to management decision as well as utilisation statistics of the various services. From the use cases, a data model



is derived for future implementation. A market analysis shall be performed, including the evaluation of tools currently used in the specific areas, for the identification of the most appropriate implementation solution. Time permitting, the candidate might monitor the implementation and population of so defined platform.

Educational and other requirements

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. Applicants should have a good background in modern information technology and software engineering practices, including Business Intelligence and Web-based design and technologies. Knowledge of activities related to Earth Observation data processing is an asset.

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, Latvia, Lithuania, Slovakia and Slovenia as European Cooperating States (ECS).