

Training Opportunity for Portuguese Trainees

Reference	Title	Duty Station
PT-2012-EOP-GS	Ground Segment Strategy Management Office	ESRIN
<p>Overview of the unit's mission:</p> <p>The ESA Earth Observation multi-mission Payload Data Ground Segment system is in charge of handling all payload data, including data processing, storage, dissemination and distribution. The operations of all the system elements are daily monitored, and several tools have been developed for the various ESA missions (e.g. Envisat, ERS, GOCE...) for allowing mission management, monitoring the end-to-end system behaviour and issue warnings in case of malfunctioning.</p> <p>GMES (Global Monitoring for Environment and Security) is a European Earth Observation initiative with the view to provide information services allowing better management of environmental and security issues.</p> <p>The two main objectives of the GMES data and information policy are, subject to relevant security measures to promote the use and sharing of GMES data and information and to allow for "full and open access" to information produced by GMES services and data collected through GMES infrastructure</p> <p>The GMES program and Sentinels missions bring a new complex and dynamic environment, since the different entities compounding the system are evolving and they are at different stages of the respective project lifecycle. The EO PDGS requires a set of security measures and mechanisms in order to protect the sensitive and critical parts of the system. The security has to apply wholly or partly to the current PDGS addressing the risks faced by the PDGS system and which are devised to maintain its confidentiality, integrity and availability.</p>		
<p>Overview of the field of activity proposed:</p> <p>The Trainee will be working within the Ground Segment Strategy Management Office, involved in the above mentioned activities, including the following tasks:</p> <ul style="list-style-type: none"> • Familiarization and understanding of the main elements and data flows of the ESA Multi-mission Ground segment (interacting with the relevant offices) . • Security Threat and Vulnerability Analysis of the Sentinel's PDGS. • Security risk analysis faced by the Sentinel's PDGS. • Identification and implementation plan of security countermeasures for the improvement of the PDGS security level • Support the Security Officer in the review of the Security policy process 		
<p>Required education:</p> <p>Applicants should have a university degree or equivalent qualification in Telecommunication Engineering with qualification in Computer Network.</p> <p>Candidates shall have familiarity with IP Networks (e.g.e-mail applications, DNS) and Security methodology. The knowledge of the research and education networks (e.g. Geant 2) is desirable.</p> <p>The working languages of the Agency are English and French. A good knowledge of one of these two languages is required. Knowledge of another member state language is an asset</p>		