

Training Opportunity for Portuguese Trainees

Reference	Specialist Area	Duty Station
PT-2010-EOP-GS	Earth Observation Payload Data Ground Segment	ESRIN
<p><u>Overview of the Division missions:</u></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>The High-Speed ESA Earth Observation Network (HiSEEN) allows high-volume data transfers between the different Earth Observation centres; the Network provides support to the different Mission/Programme under preparation or already under operations. Critical data is managed over separate/high available Network. Development, management and operations of HiSEEN is centralized in ESRIN.</p> <p>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><u>Overview of the field of activity proposed:</u></p> <p>The Portuguese 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) • analysis of the security risks faced by the Current PDGS and of the existing security countermeasures that are already in place. • Identification and implementation of security countermeasures for the improvement of the PDGS security level • Identification and design of new networking and data dissemination architecture 		
<p><u>Required Education:</u></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>		