

Training Opportunity for Portuguese Trainees

Reference	Title	Duty Station
PT-2012-EOP-GU(2)	Earth Observation Application Areas; Earth sciences	ESRIN
<p><u>Overview of the unit's mission:</u> The Earth Observation User Services and Mission Planning Office is responsible for operational handling of user requests for satellite data, payload planning of Earth Observation satellites, acquisition and production scheduling, and information Services for Earth Observation users including data catalogues, product handbooks, web servers.</p>		
<p><u>Overview of the field of activity proposed:</u> The objectives of this activity are:</p> <p>Identify a set of parameters in earth observation application areas interesting to the educated public and that can be reasoned about using remote sensing data. Examples from the application area 'Climate' are changes in Antarctic ozone hole, deforestation of the Amazon, ice cover, CO₂, ocean temperature, water level. Examples from the application domain 'Disasters' are severe storms, floods, fires, seismic and volcanic activity, etc.</p> <p>Identify and collect existing and readily available scientific or operational results in the ESA Earth Observation programme directorate (including missions payload data ground segments, science application and technology, scientific projects, as well as the Global Monitoring for Environment and Security (GMES) Service Projects) that can allow the visualization of changes over time in the above parameters, in terms of:</p> <ul style="list-style-type: none"> • Historic change over time (i.e. visualize the last ten years) • Continuous change, based on continued update showing for example monthly or yearly evolution based on new data from eo missions <p>Identify and propose re-processing and simple production lines to be set up for continued updates (i.e. monthly).</p> <p>Identify also static results of interest and readily available for publication with minimum additional work (for example the many Web Map Server layers available on various ESA EO sites)</p> <p>Propose an area under the ESA Earth Observation Data Portal (Earthnet) addressing outreach and results oriented content, and in this context propose a set of widgets or small applications that allow for the visualization of the evolution of each parameter in particular</p> <p>In collaboration with a content provider oversee the production of text, widgets, and other content populating the new Earthnet site area</p> <p>Propose an approach to the use of social media in the context of the new content area and in the new Earthnet site as a whole</p>		
<p><u>Required education:</u> Applicants should have completed, or be in their final year of a University course at Masters level in a technical or scientific discipline with background in Earth Observation applications and/or geosciences, some knowledge of Communications would be an asset.</p> <p>Candidates must be fluent in English or French, the official languages of the Agency</p>		