Training Opportunity for Portuguese Trainees

Reference	Title	Duty Station
PT-2015-EOP-GSR	**App development and fast prototyping specialist**	**ESRIN**

Overview of the Unit missions:

The Research and Technology Development Section manages research and technology development activities, and the Research and Service Support to scientists. It is part of the EO Ground Segment and Mission Operations Department which manages Missions Operations and Maintenance for the Phase E of Earth Explorer missions and the Phase F - data management - for missions like Envisat, ERS, GOCE. The Department is responsible for ground segment developments for ESA, Copernicus, and third party missions. Furthermore the Department is as well responsible for generic ground segment infrastructure, support of the development of higher level products and validation activities for Earth Explorer missions, third party missions, international presence, and long-term data preservation.

Overview of the field of activity proposed:

The opportunity offered to brilliant, proactive and expert engineers is to interact with mission managers and engineers in a framework dedicated to the development of Apps for mobile devices and to participate in fast prototyping of payload data ground segment components. The following applications/prototype developments have been identified as requiring fast prototyping support activities:

• Application for promotion of missions and data exploitation

• Application - for light access to services (e.g. virtual archive data transfer to Dropbox, Processing On Demand job submission, job monitoring, etc.)

• Application for enhanced user support (e.g. live chat, dedicated user support system, etc.)

• Application/Prototype for high-level monitoring of missions and facilities

• Generation of 3D shows for outreach

• Analysis / Feasibility studies and software prototypes for enhancement of applications and processes .The fast software prototyping has the purpose of reducing ground segment development risks before technical solutions are consolidated in ground segment developments.

• Add-on / Integration layers and new user interfaces (e.g. access to EO PDGS portfolio of products via different interfaces)

The applicants shall participate in the formulation of new App utilisation scenarios in particular addressing the use of EO data, the possible participation of citizens (crowdsourcing) and the use of Apps by experts and scientists. Furthermore the applicants shall participate in the capture of requirements, shall support the preparation of mock-ups and participate and support the delivery of Application/Prototypes over mainstream platforms like e.g. iOS, Android/Unix, Ms Windows.

Required Education:

Applicants should held a Master Degree either in Computer Science or Remote Sensing. Willingness to make hands on experience on EO data, a strong interest to work in an international environment, a passion for research activities and a proactive problem-solving attitude are required.