

Training Opportunity for Portuguese Trainees

	1100	Duty Station
1-2014-EOP-PE5	Mission and System analysis for LEO	ESTEC
Overview of the Unit	missions:	
he System Support Division ystem analysis and provides iepartment. /ithin this division, the Earth arth Observation projects, ir eometry calculation and mis roducts. . variety of software tools are ffice staff. he office also maintains an c egment of all Earth Observa .Il analyses are systematicall esults, and presented to the Dverview of the field	supports the overall ground system implementates post launch support for satellite projects in the observation System Support Office provides de nall their development phases, in particular regission planning. The geometry includes the orbit, e used to support these analyses, both off-the-sepperational orbit and geometry calculations libration projects supported by the Division. By documented with quantitative and qualitative concerned project staff.	ation, performs mission and Earth Observation Projects etailed analyses to the various arding system performance, attitude and geolocation of shelf and custom made by the ary, which is used in the ground assessment of the analyses
he selected Trainee will be in s follow: - Orbit and attitude ar analysis for interfero - Visibility analysis for - Visibility analysis for - Geolocation accuracy - Mission planning and	nvolved, within the Mission and System analysis nalysis: orbit definition, manoeuvre strategy, de ometry. Orbit transfer strategies; instrument: coverage & revisit analysis, field of ground stations: data latency, on-board memo y; d Observation & Communication scenario review	s team, in the selected activities Ita-V calculations, baseline f view geometry; ry usage; /.
referably the results are to be he activities may also includ btained results. nother specific contribution in the division's orbit and geo the selected method in the for futor: Montserrat Pinol & Ber	be presented in a geometrical (information system le the coding of any ad-hoc software tools require for the trainee will be to review the data filtering ometry calculations library, to select a method to own of software code, and to analyse and to report thyl Duesmann	em) context. red, and the validation of the g & smoothing techniques used o improve the results, prototype ort on the results.
Required Education:		
pplicants should have just c quivalent) in a technical or s rbital mechanics , missions a omputing and programming e.g. Matlab, IDL, Perl, Ruby) pplicants should have good	ompleted, or be in their final year of a University scientific discipline. More specifically knowledge analysis or software engineering is an asset. The skills for coding algorithms (e.g. in C, C++, Jav). interpersonal and communication skills and show dependently and as part of a team.	y course at Masters Level (or of data filtering / smoothing, e Applicant should have good va) and / or the analysis of data uld be able to work in a multi-