

Training Opportunity for Portuguese Trainees

Reference	Title	Duty Station
PT-2019-TEC-SYE	System Engineering and Mission Design (CDF)	ESTEC
<p><u>Overview of the Unit missions:</u></p> <p>The training opportunity is within the Systems Engineering Division (TEC-SY) of the Technical and Quality Management Directorate (D/TEC) and in particular in the Systems and Concurrent Engineering Section (TEC-SYE) which is responsible for the following main activities:</p> <ul style="list-style-type: none"> • Manage and use the Concurrent Design Facility (CDF) to perform internal feasibility studies and design of potential future ESA missions, • Provide system engineering support to ESA programmes and projects in various phases of their development, • Conduct R&D activities related to system engineering methodologies and tools. <p>Further information is available at http://www.esa.int/CDF</p>		
<p><u>Overview of the field of activity proposed:</u></p> <p>Participation in multidisciplinary and inter-directorate activities for the assessment and conceptual design of future space missions for all ESA programmes. Hands-on system engineering support to CDF space mission studies and to other facility development and maintenance activities. Development of engineering tools, models and databases for the CDF infrastructure and the concurrent engineering approach. Participation in definition and preparation of new CDF applications such as Model Based System Engineering (MBSE), payload instrument modelling and design, System of System (SoS) architecting, anomalies investigation. Technical support to the other system and project activities of the Division, including small satellite studies, in orbit demonstration and technology activities, depending on specific technical fields of expertise of the candidate.</p>		
<p><u>Required Education:</u></p> <p>Master-level degree in engineering with preferably an aerospace background and/or specialization in System Engineering, Mission Analysis and Design and/or other system-related disciplines. Experience in the usage of engineering tools (e.g. MatLab, STK, MatCad, Catia, etc.), as well as office automation software (e.g. Excel, Visual Basic, Word, PowerPoint, etc.) is an asset. Candidates must be fluent in English and/or French, the official languages of the Agency.</p>		