

Training Opportunity for Luxembourgish Trainees

Reference	Title	Duty Station
LU-2022-TEC-SYE	Systems Engineering	ESTEC
<p><u>Overview of the mission</u></p> <p>The training opportunity is within the Systems Engineering Division of the Technical, Engineering and Quality Directorate and, in particular, in the Systems and Concurrent Engineering Section which is in charge of the following main activities:</p> <ul style="list-style-type: none"> • Manage, promote and utilise the Concurrent Design Facility (CDF) to perform feasibility assessments and design of potential future ESA missions; • Provide systems and model based systems engineering support to ESA programmes and projects in various phases of their development; • Conduct R&D activities related to systems and concurrent engineering methodologies and tools, including digitalization and MBSE. <p>Further information is available at http://www.esa.int/CDF</p>		
<p><u>Overview of the field of activity proposed</u></p> <ul style="list-style-type: none"> • Participation in multidisciplinary and inter-directorate activities for the assessment and conceptual design of future space missions for all ESA programmes. • Hands-on systems engineering support to CDF space missions studies and contribution to other activities such as facility maintenance and development. • Development of engineering tools, models and databases, including MBSE solutions and infusion of innovative technologies for Concurrent Engineering processes and systems support to projects. • Participation in definition and preparation of novel CDF applications, including System of System (SoS) architecting, anomalies investigation, reviews, technology roadmapping, lessons learned capitalisation. • Support to ESA systems and programme/project activities depending on specific technical fields of expertise of the candidate. 		
<p><u>Required background:</u></p> <ul style="list-style-type: none"> • Master's degree in engineering, preferably with aerospace background and/or specialization in System Engineering, Mission Analysis or other system-related disciplines. • Knowledge -and possibly experience in the usage- of engineering tools (e.g. MatLab, STK, MathCad, Catia, etc.), as well as Object Oriented programming (e.g. Java), Scripting Languages (e.g. Python), Modelling Languages (e.g. SysML) with applications like MagicDraw, Enterprise Architect, etc. • Experience in office automation software (e.g. Excel, Visual Basic, Word, PowerPoint, etc.) • Good interpersonal and communication skills • Ability to work in a multi-cultural environment, both independently and as part of a team • Fluency in English and/or French, the working languages of the Agency 		