Training Opportunity for Swiss Trainees

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<th>Reference</th>
<th>Title</th>
<th>Duty Station</th>
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<td>CH-2017-TEC-SY</td>
<td>Systems engineering including CDF</td>
<td>ESTEC</td>
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**Overview of the unit’s mission:**

The training opportunity is within the Systems and Engineering Division (TEC-SY) of the Technical and Quality Management directorate (D/TEC) which is responsible for the following main activities:

- Manage the Concurrent Design Facility (CDF) and perform Phase 0 studies to assess the feasibility of future ESA missions,
- Provide system engineering support to ESA programmes and projects in various phases of development,
- Conduct R&D activities related to system engineering methodologies and tools,
- Manage and oversee cubesats projects and related development activities
- Implement Technology Flight Opportunities and In Orbit Demonstration missions

Provide technical support to small spacecraft projects for technology demonstration and/or education, including preparatory activities (feasibility studies, pre-developments, ...)

**Overview of the field of activity proposed:**

The activity of the trainee will consist in one or more of the following tasks depending on the ongoing activities in the division at the time of the stage:

- Participation in multidisciplinary engineering activities for the assessment and conceptual design of future space missions,
- Participation to cubesats, TFO and IOD projects,
- System engineering support in CDF space mission studies and for other facility development activities,
- Development of engineering tools, models and databases for the CDF infrastructure and the concurrent engineering approach.

**Required education:**

Master-level degree in engineering with preferably an aerospace background and/or specialisation in System Engineering, Mission Analysis and/or other system-related disciplines. Experience in the usage of engineering tools (e.g. MatLab, MatCad, Catia, etc.) and office automation software (e.g. Microsoft Office, Excel, Visual Basic) is an asset.