Training Opportunity for Swiss Trainees

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<th>Reference</th>
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<th>Duty Station</th>
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<td>CH-2018-SCI-FE</td>
<td>Support to PRODEX</td>
<td>ESTEC</td>
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**Overview of the unit’s mission:**

Reporting to the Future Missions Department, in the Directorate of Science, the PRODEX Office implements the PRODEX Programme. PRODEX is an optional Programme of ESA devoted to the development of scientific instruments and experiments for space science missions. The development may involve industry and/or scientific institutes and may cover either a full instrument or instrument contributions or subsystems. Currently PRODEX implements sub-system developments for a number of missions, including JUICE or PLATO Instruments phases C-D, EXOMARS Instruments (CLUPI, LARA) and phase B developments.

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

The Trainee will support PRODEX Technical Officers monitoring the technical development of payload subsystems for phases C-D (e.g. JUICE, PLATO, SMILE …) or for phases B or earlier phases (e.g. ARIEL, LISA, Athena), including the following tasks:

- verifying and updating specifications;
- reviewing technical documentation (e.g. design reports, models etc);
- reviewing test procedures, attending verifications;
- when required, supporting in sub-system characterisation tests in ESTEC labs;
- reviewing technical proposals, schedules and development plans;
- identifying potential problem areas and proposing remedial actions;
- supporting preparation and execution of Project reviews.

**Required education:**

Engineer or PhD in Physics (including instrumentation electives), with competency in the following domains of Scientific Space Instrumentation:

- Subsystems: optics, detection, electronics (at least one of these);
- System engineering;
- AIV (Assembly, Integration and Verification);
- Mechanical, thermal or electrical aspects.

Traineeship or exposure to Space Instrumentation development would be an asset.

English language.