

Training Opportunity for Swiss Trainees

Reference	Title	Duty Station
CH-2018-SCI-FE	Support to PRODEX	ESTEC

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.