

Training Opportunity for Swiss Trainees

Reference	Title	Duty Station
CH-2018-HRE-XSP	ISS Facility and Technology Engineering	ESTEC
<p>Overview of the unit's mission:</p> <p>The ISS Facility and Technology team is responsible for keeping the Columbus experiment facilities in good working order so that they can fully support the on-orbit science activities. More information can be found at http://www.esa.int/Our_Activities/Human_Spaceflight/Columbus. Specifically we:</p> <ul style="list-style-type: none"> - develop ISS Research Facility evolutions and enhancements (e.g. EDR Video Management Unit); - develop exploration technology demonstration systems (e.g. ACLS, ANITA, MiDASS, TARZAN) to be flown on board the ISS in preparation for human exploration missions; - provide integration and sustaining engineering support to ISS Operations Team (HREOO) to maintain ISS operations including procurement of all the hardware required to support the sustainability of the on-orbit infrastructure of ESA systems; - support the resolution of anomalies of ESA's on-orbit ISS Research Facilities; - perform engineering activities related to ISS lifetime extension. 		
<p>Overview of the field of activity proposed:</p> <p>In line with his/her specific technical background, the trainee would be involved in specific areas of the business of the unit, therefore being exposed to end-to-end development of space hardware development (from establishment of requirements to final acceptance of the hardware/software), sustaining engineering (troubleshooting of on board issues and identify optimal solutions).</p> <p>One area of interest is also the evolution of the existing on-orbit infrastructure to a different type of utilisation, different than what initially conceived, and the introduction of commercial utilisation of the ISS infrastructure under ESA's responsibility.</p> <p>As there are many technology activities the trainee will have the possibility to continue in his/her area of expertise or familiarise himself/herself with activities in one or more types of technical areas, e.g. life support, avionics, mechanical and/or fluidic systems.</p> <p>In other words a broad spectre of technical, strategic and management (industry interaction) tasks are possible. A trainee with a high motivation will get the chance to be exposed to most areas of activities.</p>		
<p>Required education:</p> <p>University degree in engineering.</p>		