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-2017-HRE-AG</td>
<td>Life Support – Spaceship EAC</td>
<td>EAC Cologne</td>
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**Overview of the unit's mission:**

Within the Directorate of Human Spaceflight and Robotic Exploration, the European Astronaut Center (EAC) at Cologne, Germany, hosts the European astronaut corps and is responsible for astronaut training and astronaut medical operations. In order to prepare for future (human) space exploration missions, EAC created the “Spaceship EAC” project, which aims at developing technologies and concepts relevant for exploration on the Moon. The utilization of EAC as a test bed for exploration related technologies and operations is increasingly being developed. Concepts demonstrated within Spaceship EAC and the network of institutions involved can lead to such ideas being injected into larger funding ecosystems for TRL development.

The implementation of related projects is often done in cooperation with institutes of the German Aerospace Center (DLR), which has its headquarters and major facilities surrounding the EAC in Cologne, and with other external European partners which are part of the Spaceship network.

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

The focus of the proposed National Trainee activity is to support EAC activities within the frame of the “Spaceship EAC” initiative in particular in the area of future mission technology demonstration of life support systems. EAC is currently developing a concept for an analogue habitat module called FlexHab that will be used for potential training and technology demonstration campaigns. As part of the Spaceship EAC team, the trainee will:

- Become familiar with the “Spaceship EAC” project and - as far as relevant – with ESA's exploration technology programme and ESA life support activities;
- Work with existing life support projects active in ESA (e.g. MELISSA) where relevant to EAC
- Develop the analogue capability of the FlexHab habitat with a focus on demonstration of life support systems

The activities under the “Spaceship EAC” project are executed by a team of students under the supervision of a Research Fellow and with support from the greater EAC team.

**Required education:**

Applicants should have just completed, or be in their final year of a University course at Masters Level (or equivalent) in a relevant technical or scientific discipline.

Applicants should have good interpersonal and communication skills and should be able to work in a multi-cultural environment, both independently and as part of a team.

Skills or experience relating to activities in the domain of life support is desirable.

Applicants must be fluent in English and/or French, the working languages of the Agency. A good proficiency in English is required.