



Mission Architect Officer



Mission Assurance Team Description:

The Mission Assurance team is responsible for the implementation and review of mission critical procedures and planning. This involves the development of the final mission flight plan, EVA schedule, base design, mission procedures and standard operating procedures (SOP's). Further to this, the team is responsible for the organisation of Asclepios design reviews to ensure the missions progress is on track and all systems are constantly being reviewed. Making sure the mission goals are well defined and initial requirements are set in place are vital to ensuring final mission success.

Mission Architect Officer Description:

As a Mission Architect officer, you will define the framework and purpose of the AVII Analogue Mission through research, the basic mission concept of operations and how the mission will be run safely and consistently for the astronauts - how we operate nominally during the mission. This will involve writing and reviewing requirements for the mission and understanding the associated procedures. Further to this, the team will design the final mission flight plan and EVA schedule around the science experiments and mission requirements.

Key information for role:

- **Average hours required per week** - 3-6 hours
- **Tasks and Responsibilities:**
 - Attend regular meetings with the mission assurance team to give and collect updates for the heads.
 - Analogue mission research to understand: feedback from the previous mission, procedures of other analogue missions, and the opinions of professionals.
 - Define key assumptions / constraints based on the mission location, resources, time, and crew size.
 - Define mission success criteria.

- Write guidelines and SOP's and review existing ones.
- Make risk assessments and define contingency plans for when simulation can be broken and how it can be minimised.
- Define concept of operations: daily routine, scope of EVA's, Base-MCC communications
- **Essential Requirements for Role:**
 - Dedication
 - Communication Skills
 - High interest in space related fields
 - Fluent english speaker
 - Can work in a stressful environment with time-pressing issues
 - Basic understanding of analogue mission procedures and scheduling
 - Desire to learn quickly
- **Desirable traits for role**
 - Expertise in analogue mission procedures, planning and operations.
 - Ability to work under pressure and adapt to real-time mission challenges.
 - Experience working in a student team.
 - Systems engineering experience.

Inclusivity Statement

Don't meet all the requirements? That's okay, one thing all applicants that are chosen show in common is their passion for Asclepios and their passion for the mission. Feel free to apply for any role you think you will enjoy. At Asclepios, we have a very welcoming environment and ensure no one is left behind. We are one big international family!