Job Description

Biomedical Engineer (BME)

Purpose of the Job
The general function of the Biomedical Engineer (BME) is to ensure astronaut health and well being by providing medical operational and engineering support to the flight surgeons and representatives of other mission support disciplines. This includes requirements development, document preparation, support activities, and console support as a Medical Operations representative in ESA space programs. The BME monitors and annotates biomedical, environmental, and other crew-related data. The BME is the medical representative to the Mission Control Center in the absence of the flight surgeon. A large portion of the job corresponding to flight operations involves responding to new situations as they arise.

Background and Experience
The candidate should be a citizen of a European country or Canada, preferably from one of the European Space Agency funding European countries. The incumbent should possess a degree in Biomedical Engineering, Science or a related field. The incumbent should possess fluency in all forms of English communication. A background in physiology is important. A working knowledge of Medical Operations and space program procedures is preferred. Mission Control experience makes the Biomedical Flight Controller more effective. Communication, problem solving, and organizational skills are also necessary.

Additional experience in the following areas is an asset:
- ISS Medical Systems
- ISS Medical Operations ground segment infrastructure
- ISS space flight procedures development
- Space flight communication protocols
- ISS Astronaut training lesson design, development and implementation.

Job Functions
1. Provide Flight Controller operational and engineering support in the Mission Control Center (MCC-H, MCC-M, and EAC).
   • Monitor crew health status and bioenvironmental data during all mission phases.
   • Manage and validate data communications received.
   • Adhere to the shift schedule for Flight Controllers, requiring a longer than standard eight hour workday.
   • Work shifts on weekends and holidays in support of mission duties.
   • Support integrated simulations for upcoming flights.
   • Keep abreast of information concerning upcoming flights and expeditions.
   • Coordinate ESA specific issues.
   • Maintain Flight Controller certification as an ESA Biomedical Engineer.
   • Obtain necessary expedition specific training and educate the ESA BME team supporting the expedition.
   • Support the Crew Surgeon by performing preflight ESA specific tasks.
   • Provide inflight mission support
   • Support the crew surgeon and participate in postflight medical operations tasks.
2. Assist with the development and implementation of ESA BME and Flight Surgeon training.
3. International travel.
4. Support space medicine-related projects as assigned.
5. Provide monthly status reports of job activities to Project Management.
6. Safety responsibilities are a requirement of each employee. They are to work safely and to extend the concern for personal safety to fellow employees. Employees are to make safety a top priority of their position with Wyle.

Wyle GmbH is looking forward to receiving your complete CV in English. For further information or a full job description feel free to contact Mr. Casey Pruett at casey.pruett@wylelabs.de