

FUNCTIONAL STATEMENT

BIOMEDICAL TECHNOLOGY GROUP

The Biomedical Technology Group is responsible for developing, implementing and managing a continuing program to provide ground support and manned spacecraft systems for acquiring, managing, analyzing, and presenting medical and biomedical information which is pertinent to both operational and scientific aspects of manned space flight; providing management for approved medical and biomedical manned space flight experiments; promoting and advance of biomedical technology by capitalizing on new technologies generated by the NASA; and reviewing and coordinating related budgets, schedules, and work packages. Specifically, the functions include the following:

1. Serving as the Manned Spacecraft Center's point of contact for biomedical technology, medical inflight experiments, medical data management and application of advances in these areas to ground based medicine.

2. Identifying the nature and kinds of techniques and instrumentation and coordinating the development and functional verification of instrumentation required to support and insure successful manned space flight operations.

3. Participating in the definition of, developing, and providing medical diagnostic and therapeutic techniques for inflight medical use.

4. Providing technical support to biomedical technology definition, development, procurement, and fabrication programs.

5. Screening new space technology advancements, developing and implementing biomedical use of these technologies and validating their biomedical applications.

6. Managing the Integrated Medical and Behavioral Laboratory Measurement System (IMBLMS) Program.

7. Providing for the systematic collection, reduction, analysis, and appropriate dissemination of biomedical data, including astronaut and other human data generated in current and future development, testing, and operational efforts.

8. Providing management services to principal investigators and principal coordinating scientists which are required to define and conduct complete biomedical experiment flight programs in a manner which provides optimal scientific benefit.

9. Maintaining medical inflight experiments documentation control by preparing, reviewing, coordinating, and approving all experiment protocols, experiment implementation plans, experiment development plans, end-item specifications for

experiment hardware, and other documents involved in the process of defining, developing, and operating an approved medical inflight experiment.

10. Coordinating, defining, and developing breadboard and prototype states of technologies and instrumentation systems for feasibility studies and proposed inflight experiments hardware.

The Chief, Biomedical Technology Group, reports to the Director of Medical Research and Operations.