

MARSHALL SPACE FLIGHT CENTER—FUNCTIONAL DESCRIPTION OF LABORATORY MISSIONS AND THE SUPPORT SERVICES TO BE PROVIDED BY THE CONTRACTOR

Organization and contractor providing support	Functional description	Description of support services to be provided by contractor
Computation Laboratory, General Electric Co.	1. To plan, establish, and conduct the application of high-speed computers and automation devices to the field launch vehicle research, development, test, fabrication, and launching, as well as to the areas of management and project direction.	1. The contractor shall furnish the necessary management, personnel, facilities, and equipment (except that to be furnished by the Government) to provide technical support services in the performance of the laboratory's assigned mission. 2. Provide support to the resources management, data systems engineering, digital projects, data reduction, simulation, engineering systems, and industrial systems branches and offices.
Astrionics Laboratory, Sperry Rand Corp.	1. To perform research and development, including prototype development, of components or systems in the areas of guidance, control, electrical networks, vehicle-borne tracking, measuring, telemetering, and range safety devices for multistage launch and space vehicles. 2. To design and fabricate electrical ground support equipment for testing, checkout, and launch of multistage launch and space vehicles and to design and fabricate special test equipment associated with vehicle guidance and control components. 3. To analyze and evaluate postlaunch data to establish performance characteristics of all astronautics components and systems and to investigate and correct inadequacies of malfunctions of such components and systems.	1. See No. 1 above. 2. The support services to be provided include applied research, component evaluation and testing, documentation design, evaluation qualification, reliability support, flight dynamics, industrial manufacturing support, and special advanced studies.
Propulsion and Vehicle Engineering Laboratory, Brown Engineering Co.	1. To direct and conduct research, development, engineering and technical management in the areas of propulsion, structures, materials, vehicle systems and launch and space vehicles. 2. To perform advanced design of future launch and space vehicles including conceptual and feasibility studies in the areas of propulsion, structures, and materials. 3. To operate experimental laboratory and test facilities in support of research and development work being performed. 4. To represent and to function for the director, R. & D. operations, when designated as a lead laboratory in planning and managing the combined R. & D. operations organizational elements efforts immediately associated with the specific tasks and activities assigned. 5. To perform the technical and R. & D. project management of tasks assigned by designated lead laboratories.	1. See No. 1 above. 2. The support services to be provided include design studies, vehicle engineering, structural research and development, propulsion and mechanical systems research and development, materials research and development, program coordination, documentation, fabrication, systems, subsystems, and component testing.