

HOW TO REQUEST BEAM TIME FOR HEAVY ION TESTING

The Missile Defense Agency (MDA) has available test time for Heavy Ion (HI) Single Event Effects (SEE) characterization of electronic piece parts in the Natural Space Environment (NSE) at the NASA Space Radiation Laboratory (NSRL) and Lawrence Berkeley National Laboratory (LBNL) over the course of the next five (5) years.

MDA's mission requires the synchronized integration of platforms, sensors, and other components of the Missile Defense System (MDS), which were, or are, under separate development by multiple contractors. MDA uses the concept of End-to-End performance to serve as the organizing principle that aligns and synchronizes these efforts to achieve the desired operational end-state for the MDS. Further, the MDA mission relies on a robust industrial base for the critical supply, at scale, of parts approved for use in a space environment. In support of its mission, MDA plans to utilize a portion of this HI test time for the purpose of establishing a radiation parts database and preferred parts listing via testing of electronics parts identified as common, or potentially beneficial, to multiple components of the MDS. Additional information about MDA's mission is available at www.MDA.mil.

MDA intends to make test time available to vendors whose candidate parts support the above initiative. MDA's availability only extends to beam time. Vendor participants are responsible for all of the other necessary resources to undergo and complete testing to include the test team, part samples and test fixtures.

The foundation of the radiation parts database and preferred parts list, which ultimately contributes to a robust industrial base, is a standard test approach that will meet generic MDA ballistic missile needs while providing consistent data for comparison of parts in NSE across multiple potential applications. A SEE Characterization Requirements Document will establish the minimum testing expectations based on technology type that each part must adhere to.

Prospective applicants should be aware that the Government must have the requisite ability, short and long-term, to support parts' continued development, future production, operation, maintenance, upgrade, and modification of such. This includes minimizing restrictions on Intellectual Property rights for the resulting final data, analysis, and test reports that impact MDA's ability to maintain or certify changes to the tested configuration or MDA's ability to conduct studies, material review boards, and major weapons systems parts selection efforts.

Interested vendors can email the MDA Heavy Ion Test Allocation Council (HITAC) at MDAHITACadmin@mda.mil. Upon receipt of the email, MDA will provide a full test application, to include the SEE Characterization Requirements Document mentioned above. Vendors who find the application and its attachments agreeable may submit an application accordingly.

MDA's HITAC will review applications on a rolling basis; however, the timely submission of an application is paramount to the allocation of test time.