Small Business Innovation Research/Small Business Tech Transfer

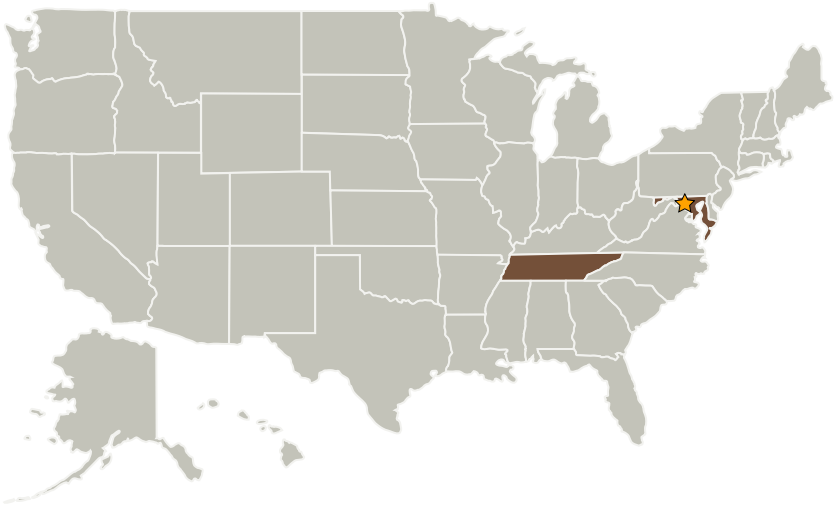
Novel Lightweight Magnets for Space Applications, Phase I

Completed Technology Project (2008 - 2008)

Project Introduction

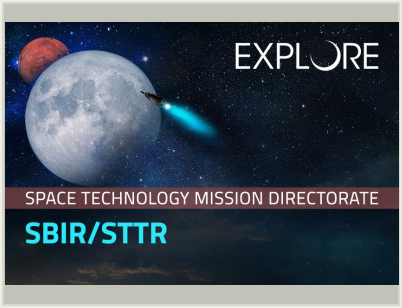
TYRC of Tallahassee, Florida will design, fabricate and test a novel magnet for space applications. This lightweight magnet will be designed to operate at higher temperatures reducing the refrigeration requirements for space based magnet applications. When built, the proposed magnet system will enable more efficient, reliable, cost-effective space based operations than alternatives presently available.

Primary U.S. Work Locations and Key Partners



Organizations Performing Work	Role	Type	Location
★Goddard Space Flight Center(GSFC)	Lead Organization	NASA Center	Greenbelt, Maryland
Tai-Yang Research Corporation	Supporting Organization	Industry	Knoxville, Tennessee

Primary U.S. Work Locations	
Maryland	Tennessee



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Organizational Responsibility

Responsible Mission Directorate:

Space Technology Mission Directorate (STMD)

Lead Center / Facility:

Goddard Space Flight Center (GSFC)

Responsible Program:

Small Business Innovation Research/Small Business Tech Transfer

Project Management

Program Director:

Jason L Kessler

Program Manager:

Carlos Torrez

Principal Investigator:

William S Marshall

Technology Areas

Primary:

- TX12 Materials, Structures, Mechanical Systems, and Manufacturing
  └ TX12.3 Mechanical Systems
    └ TX12.3.8 Docking and Berthing Mechanisms and Fixtures