Impact of NASA Investments in Vermont: VT Space Grant Consortium & NASA EPSCoR

VT-NASA Network



What is Space Grant? A partnership between NASA and colleges/universities to improve the nation's STEM workforce. The program's objectives are to: encourage cooperative programs among higher ed, industry, and federal/state/local governments; recruit and train the next generation of STEM professionals; and enhance research that propells the nation's STEM accomplishments forward.

What is NASA EPSCoR? Provides substantial funding for large-scale STEM research projects and collaborations across academia, industry, and government to strengthen research infrastructure in Vermont.

FY25 Investment Report

Direct Space Grant Support to Vermonters:

$777,520

Space Grant Investments:	$860,000
NASA EPSCoR Investments:	$200,000
Next-Gen STEM Investments:	$40,000
Total NASA Investments:	$1.1M

Publications: **3***
Conference Presentations: **7**
External Grants Awarded: **1**
***100%** of publications were co-authored by Vermont students.*

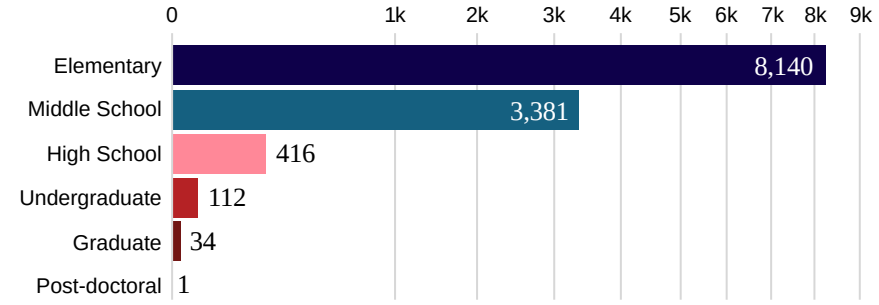
Space Grant Student Outcomes

92.5% continue to STEM careers

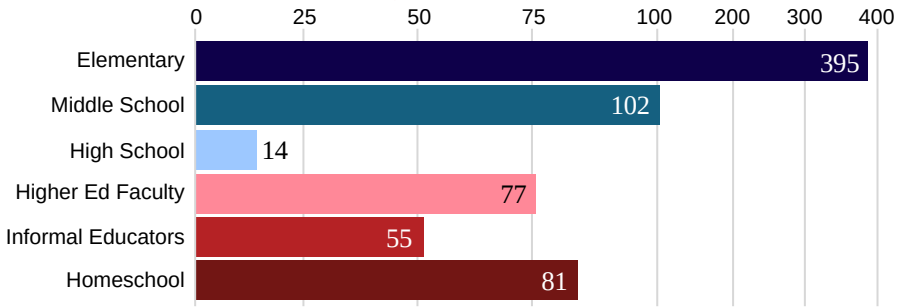
15% pursue advanced STEM degrees

70%+ of funds go directly to students and awardees

12,000+ Vermont Students Engaged



724 Vermont Educators Engaged



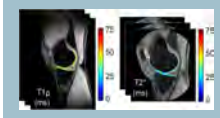
plus 34,000+ other participants!



FY25 Research Highlights

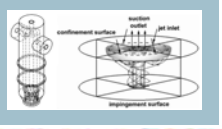
Analyze fatigue strength in robotic welding to better predict lifespan of modular, unmanned space crafts.





Assess joint geometry as a measure of cartilage health after long-term space missions. **student project*

Modify a UVM-invented system to remove particle charged dust from space habitats. **student project*



FY25 VT NASA Programs & Awards

Graduate Fellowships: 12 MS & PhD students

Undergraduate Research: 19 (6 UVM, 4 SMC, 2 Middlebury, 2 Norwich, 5 VTSU)

Senior Engineering Design: 7 @ Norwich University

Technical Training Scholarships: 2 @ Burlington Technical Center

Internships at NASA Centers: 3 (2 UVM, 1 Champlain College)

Faculty Research Projects: 8 (6 UVM, 1 Norwich, 1 Middlebury)

Public Library Awards: 6 (303 visitors & added 4 lendable resources)

Vermont NASA EPSCoR Funding FY 25

Program/Grant Name (NASA Cooperative Agreement)	FY	District	Amount
The Vermont NASA EPSCoR Research Infrastructure Development Program (PI: Bernard F. Cole, 80NSSC22M0038)	2022-2027	VT	$1,000,000
Focused Elastodynamic Morphing for deployment of Metamaterial Spaceborne Antennas and Lattice Structures for Aerospace Applications (PI: Bernard F. Cole, 80NSSC23M0071)	2023-2026	VT	$750,000

NASA EPSCoR Vermont

VTSGC Vermont Space Grant Consortium

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