

New
Hampshire
Space
Grant
Consortium



NH SPACE GRANT CONSORTIUM

Established by Congress (Public Law 100-147) in 1988 and implemented through the NASA Office of STEM Engagement, the National Space Grant College and Fellowship Program (known as 'Space Grant') contributes to the nation's space enterprise by funding related research, education, and public service projects through a national network of 52 university-based Space Grant consortia: one in each state, the District of Columbia, and Puerto Rico. Each consortium consists of multiple independent affiliate institutions, creating a network of over 850 Space Grant institutions nationwide. These affiliates represent more than 600 colleges and universities as well as industry, local government agencies, federal agencies, and nonprofit organizations. A key aspect of the Space Grant Program is that it is a Cost Share program, with federal dollars matched by state and affiliate funding contributions.

NH SPACE GRANT HIGHLIGHTS:

- **New Hampshire Space Grant Consortium** was established in 1991 as a collaboration between the University of New Hampshire (UNH) and Dartmouth College. The Consortium has since expanded to include seven institutions at 20 locations throughout the state: University of New Hampshire, Dartmouth College, Plymouth State University, the Community College System of NH, the McAuliffe-Shepard Discovery Center, Mount Washington Observatory, and BAE Systems. (See map on following page)
- **Undergraduate and graduate student STEM workforce development opportunities** sponsored through the consortium include scholarships, fellowships, NASA Center hands-on experiences, conference travel allowances, student symposia support, and individual student and team research experiences. **This past year, these student opportunities included:**
 - ★ Fellowship support for graduate student research at UNH in soil ecology, methane production in thawing permafrost, and the Earth's magnetosphere, and at PSU, applied meteorology;
 - ★ Graduate assistantships in physics, earth science, computer science, and engineering at Dartmouth College, as well as symposia and hands-on experience for undergraduate women in STEM;
 - ★ Mentorship and teaching experience for undergraduates through UNH Tech Camps and MSDC STEM Camp;
 - ★ Scholarships for dozens of diverse STEM-career students through CCSNH; and
 - ★ Travel to the American Geophysical Union and American Meteorological Society annual meetings, and Lunar & Planetary Science conferences, among others.

- **NHSGC is committed to diversifying the STEM workforce** and has consistently met Consortium-wide funding goals for STEM-underrepresented groups.
- **Public outreach events include students and citizens across the state.** AerospaceFest (PSU's demonstration booth seen in the photo at top), Superstellar Fridays, and summer STEM camps at MSDC, as well as innovative new collaborations between area tech high schools and MSDC; dozens of MWO distance learning programs; and Tech Camp for middle and high school students at UNH, all allow K-12 students to gain hands-on research experience and get a taste of STEM careers and research. A wide range of NASA K-12 and outreach resources are also available through our newly-reorganized website.

EXECUTIVE COMMITTEE MEMBERS:

Dr. Antoinette Galvin, Director

University of New Hampshire

David Heirtzler, Assistant Director

University of New Hampshire

Dr. James LaBelle

Dartmouth College

Dr. Eric Hoffman

Plymouth State University

Lisa Clark

Community College System of NH

Jeanne Gerulskis

McAuliffe-Shepard Discovery Center

Brian Fitzgerald

Mount Washington Observatory

Peter Bird

BAE Systems North America

BY THE NUMBERS: FY 2022

NASA INTERNSHIPS FELLOWSHIPS & SCHOLARSHIPS

86

UNH: 5
PSU: 16
DARTMOUTH: 10
COMMUNITY COLLEGES: 53
MSDC: 2

DIVERSITY IN DIRECT-FUNDED AWARDS

64.8% FEMALE

9.6% UNDER-REPRESENTED RACIAL OR ETHNIC GROUPS


INFORMAL EDUCATION & PRE-COLLEGE

13,000+

PARTICIPANTS STATEWIDE

9,000+ K-12 STUDENTS

150+ K-12 TEACHERS

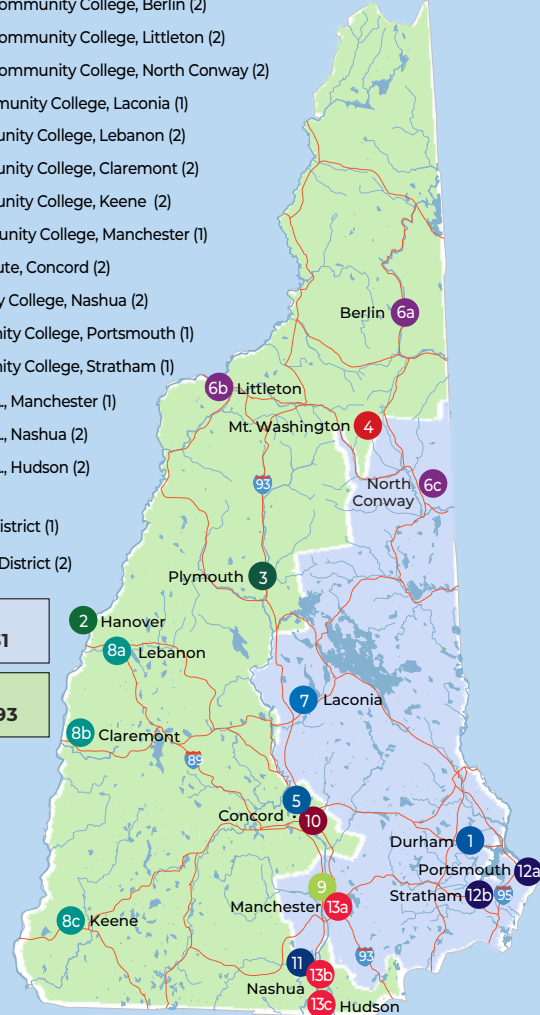


engaged via:

- McAuliffe-Shepard Discovery Ctr. Aerospace Festival, STEM camps and clubs
- Mount Washington Observatory Science of Weather and Climate Programs
- University of New Hampshire Tech Camps

NHSGC AFFILIATE LOCATIONS

- University of New Hampshire, Durham (1)
- Dartmouth College, Hanover (2)
- Plymouth State University, Plymouth (2)
- Mt. Washington Observatory, Mt. Washington (1)
- McAuliffe-Shepard Discovery Center, Concord (2)
- White Mountains Community College, Berlin (2)
- White Mountains Community College, Littleton (2)
- White Mountains Community College, North Conway (2)
- Lakes Region Community College, Laconia (1)
- River Valley Community College, Lebanon (2)
- River Valley Community College, Claremont (2)
- River Valley Community College, Keene (2)
- Manchester Community College, Manchester (1)
- NH Technical Institute, Concord (2)
- Nashua Community College, Nashua (2)
- Great Bay Community College, Portsmouth (1)
- Great Bay Community College, Stratham (1)
- BAE Systems of N.A., Manchester (1)
- BAE Systems of N.A., Nashua (2)
- BAE Systems of N.A., Hudson (2)



1st Congressional District (1)
2nd Congressional District (2)

Direct-funded students in CD 1: **31**

Direct-funded students in CD 2: **93**

NHSG ALUMNI HIGHLIGHTS

86.7% of tracked student participants have gone into STEM disciplines as their next step!

“The NH Space Grant enabled me to complete [my] education in mathematics so that I could become a high school math teacher, a position that I will begin in September 2022. I am grateful to have received this scholarship and for the positive way it has impacted my life.”

*Keith Fillion, 2020 NH Space Grant Scholarship
Pinkerton Academy - Math Teacher*

“Throughout my undergraduate experience I conducted research with a professor who specialized in control theory and received multiple grants from NASA, specifically for UAVs. I now work in the autonomous drone and robotics industry.”

*Curtis Linton, 2021 Undergraduate Research Assistant
UNH Tech Camp
Kiewit Building Group - Equipment Engineer*

EPSCoR HIGHLIGHTS

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