

# New Hampshire Space Grant Consortium



## NH SPACE GRANT: IN A NUTSHELL

### WHAT IS SPACE GRANT?

Established by Congress 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, with 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.

New Hampshire Space Grant Consortium (NHSGC) was established in 1991 as a collaboration between the **University of New Hampshire (UNH)** and **Dartmouth College**. In the fall of 1999, through a NASA competitive process, NHSGC became a **Designated consortium**, the top rating given to consortia. NHSGC now includes seven NH institutions at **20 locations** in the state (see map).

### WHAT DOES NHSGC FUND?

#### HIGHER EDUCATION:

Through our affiliates, we help fund **scholarships, fellowships, NASA Center hands-on experiences, conference travel, student symposia support, and individual student and team research experiences.**

This past year, these student opportunities included support for **graduate research** in the earth and space agricultural potential of beneficial microorganisms; Earth/Sun magnetohydrodynamics, and auroral plasma; **mentorship and teaching experience** for undergrads through STEM camps and internships at MSDC; and **travel** to AGU, Lunar & Planetary Science, and other conferences.

#### 2021 NASA INTERNSHIPS FELLOWSHIPS & SCHOLARSHIPS

**73**

**UNH: 5**  
**PSU: 15**  
**DARTMOUTH: 9**  
**COMMUNITY COLLEGES: 42**  
**MSDC: 2**

#### DIVERSITY IN DIRECT-FUNDED AWARDS (2021)

**55%**  
**FEMALE**

**14.4%**  
**UNDER-REPRESENTED MINORITY OR ETHNIC GROUPS**

#### INFORMAL AND PRE-COLLEGE EDUCATION:

Public outreach events include students and citizens across the state. Programs like **AerospaceFest** (hello!) and **Superstellar Fridays** at MSDC, the 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 resources are available through our website. For example, NASA has provided extensive outreach materials in preparation for the Artemis program. NH Space Grant also supported the exciting new exhibit collaboration with area technical high schools, allowing students to share their vision of the future with the public.

#### 2020 INFORMAL EDUCATION & PRE-COLLEGE OUTREACH

**>10,750**

**PARTICIPANTS STATEWIDE**

**>10,500 K-12 STUDENTS**  
**270 K-12 TEACHERS**

engaged via:

**McAuliffe-Shepard Discovery Center**  
Aerospace Festival, STEM camps and clubs

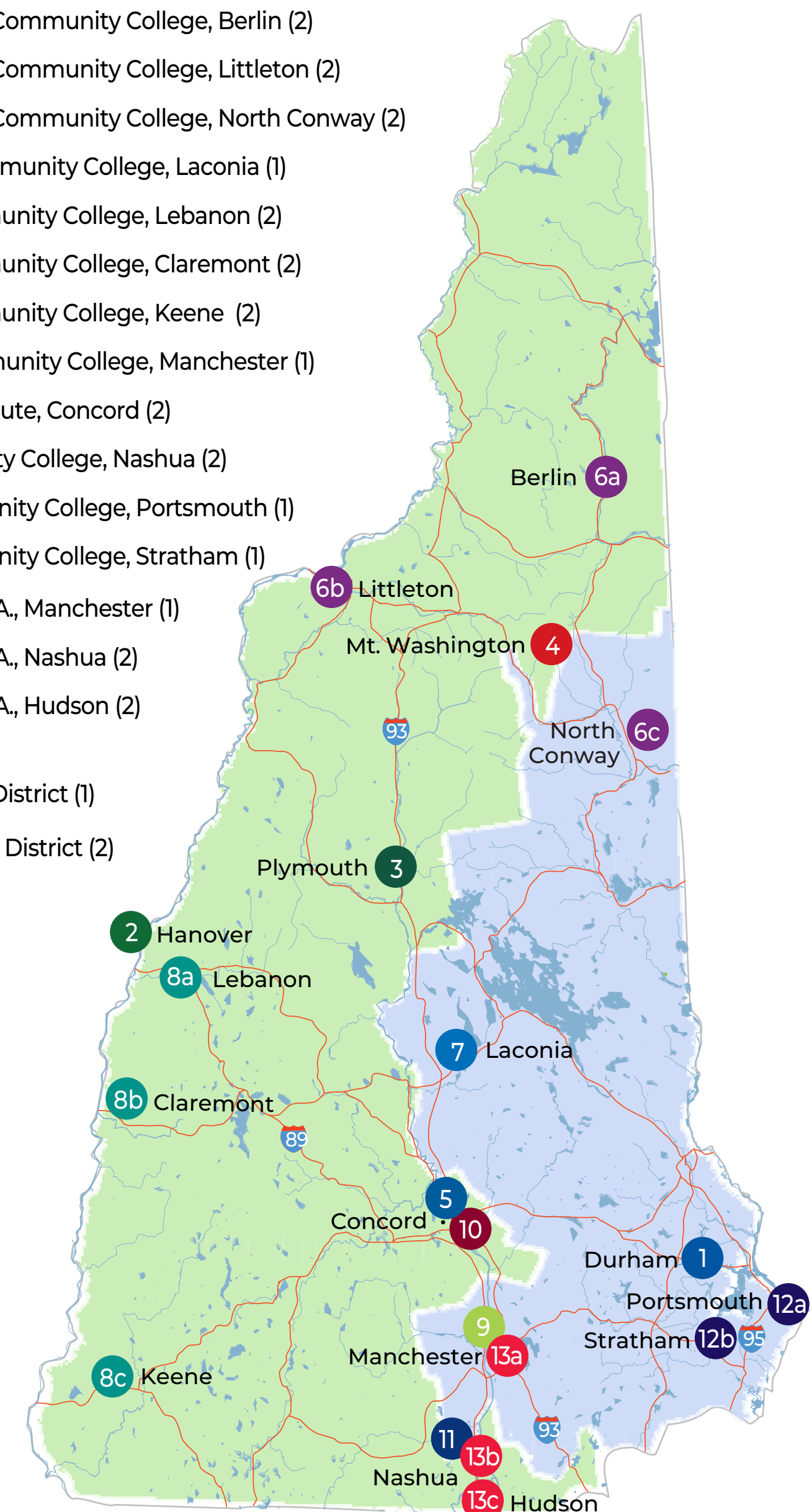
**Mount Washington Observatory**  
Science of Weather and Climate Programs

**University of New Hampshire**  
Tech Camps

### NHSG AFFILIATES:

- 1 University of New Hampshire, Durham (1)
- 2 Dartmouth College, Hanover (2)
- 3 Plymouth State University, Plymouth (2)
- 4 Mt. Washington Observatory, Mt. Washington (1)
- 5 McAuliffe-Shepard Discovery Center, Concord (2)
- 6a White Mountains Community College, Berlin (2)
- 6b White Mountains Community College, Littleton (2)
- 6c White Mountains Community College, North Conway (2)
- 7 Lakes Region Community College, Laconia (1)
- 8a River Valley Community College, Lebanon (2)
- 8b River Valley Community College, Claremont (2)
- 8c River Valley Community College, Keene (2)
- 9 Manchester Community College, Manchester (1)
- 10 NH Technical Institute, Concord (2)
- 11 Nashua Community College, Nashua (2)
- 12a Great Bay Community College, Portsmouth (1)
- 12b Great Bay Community College, Stratham (1)
- 13a BAE Systems of N.A., Manchester (1)
- 13b BAE Systems of N.A., Nashua (2)
- 13c BAE Systems of N.A., Hudson (2)

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



#### TESTIMONIALS FROM GRANT RECIPIENTS

"[Space Grant] helped me to get through college and allowed me to see how much fun stem can be. I found that for me engineering was the field I wanted to be in, I just did not know which field specifically as I like mechanical and electrical. So I decided to pursue a degree in robotic engineering at Worcester Polytechnic University."

*Jason Dominguez, 2019 NH Space Grant Scholarship  
Essco calibration laboratory - Calibration Technician*

"The grant assisted with various activities during my undergraduate studies such as participation at the NASA Lunabotics Mining Competition and general scholarship. The grants helped me pursue the education and gain valuable experiences."

*Zhangxi Feng, 2014 Space Grant Scholarship  
Los Alamos National Lab, Graduate Research Assistant*

"[Participation in Space-Grant funded projects] helped me improve my leadership and teaching skills. I created and implemented a STEM summer camp for children and this taught me the many different aspects of science and how it is passed on to the next generation."

*Caitlin Merrill, 2019 URA, MSDC*

"The NH Space Grant enabled me to complete 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 Filion, 2020 NH Space Grant Scholarship  
Nashua Community College*



Please visit our website for more information, links to scholarship opportunities, and educational NASA links for teachers and students.

<http://www.nhsgc.sr.unh.edu/>