



MAINE SPACE GRANT C O N S O R T I U M

*"Developing Maine Talent in
Aerospace-related Research
and Technology"*





About NASA

Mission Directorates



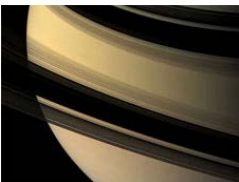
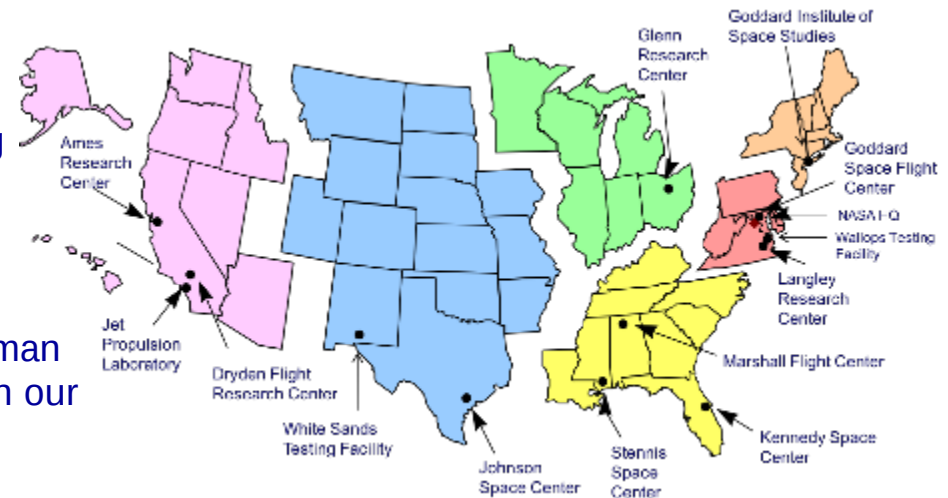
Aeronautics Research: Enables a safer, more secure, efficient, and environmentally friendly air transportation system.



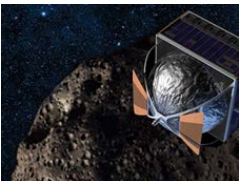
Exploration Systems Development: Defines and manages systems development for programs critical to NASA's Artemis program and planning for NASA's Moon to Mars exploration approach.



Space Operations: Responsible for enabling and managing sustained human exploration missions and operations in our solar system.



Science: Explores the Earth-Sun system, our own solar system, and the universe beyond.



Space Technology: Develops the crosscutting, advanced and pioneering new technologies needed for current and future missions benefitting the aerospace industry and other agencies, and addressing national needs.

Mission Support: Provides support capabilities responsive to evolving mission needs.

National Space Grant College and Fellowship Program

- *Established by Congress in 1989*



Inspiring & preparing the next generation STEM workforce

1250

affiliates and
partners

52

consortia in 50
states, DC, & PR

531

academic
institutions



Maine Space Grant Consortium



Who We Are

- Member of NASA's National Network of 52 state-based Space Grant Consortia
- 501(c)(3) Corporation
- Affiliates and General Members
- Responsible for Space Grant and NASA EPSCoR



PROGRAMS

URE, Fellowships and Internships

- Undergraduate Research Experience Program
- Graduate Fellowships
- Maine Industry summer internships
- Summer Internships at NASA Centers
- MERITS Program (High School Internships)

Higher Education

- Maine Student High Altitude Platform Program
- Curriculum Development
- CubeSat Development Program
- Student STEM competitions (and K-12)

Research Infrastructure Program

- IDEas Lab (Faculty research seed grants)
- NASA EPSCoR

K-12

- 3D Printed Rocketry Program
- Space Day Maine



“Working with MSGC gave me endless opportunities to build my background in aerospace systems design and experimental materials research. The funding and connections I built were the main reason I was able to finance my education and successfully enter my Master’s program.”

***— Mitchell Libby, MSGC Intern
at bluShift Aerospace,
Brunswick Maine***

- **119 Maine Students supported in Research Projects**
- **Over \$368,000 Invested Directly in Maine Students**



FY25 Education Impact Snapshot

\$86,510	Direct funding for Student Internships
\$282,343	Student support for Research
20	Students Internship: 8 College (2 NASA, 6 Maine); 12 High School
99	Student Research Experiences: -88 Undergraduate; 11 Graduate



*University of Maine
Black Bear Robotics
Team competing in
the NASA
Lunabotics
competition at
Kennedy Space
Center*

7	New or Revised NASA aligned courses implemented at affiliate institutions
7	High Altitude Balloon launches (3 with CubeSats)
12	Undergraduate students competing in NASA’s Lunabotics competition
1	Community College participating in a collaborative research project



FY25 Research Impact Snapshot



\$286,468	Federal and Institutional support for seed research, faculty and students
9	Innovative, collaborative seed research grants awarded
20	Researchers and Faculty involved in a collaborative workshop

EPSCoR Research Programs

\$325,569	Federal and institutional support for RID research, faculty and students
\$1,124,680	Federal and Institutional support for 3-year research project
5	Research Infrastructure Development (RID) Seed Research Grants awarded
1	3-year large Research Project awarded to Maine





Below: Student team excitement during Maine Robotics Competition



FY25 K-12 and Outreach Impact Snapshot

Over 4,300 K-12 students were engaged in NASA related activities

Over 360 K-12 teachers engaged in NASA related activities

Over 700 K-12 students engaged in supported state-wide Robotics events

Over 200 K-12 students impacted through in-state CubeSat competitions

Annual Space Day Maine event engages thousands of students and teachers with participation from professionals, retired astronauts, military personnel, parents and other volunteers.



Networking and Seed funds

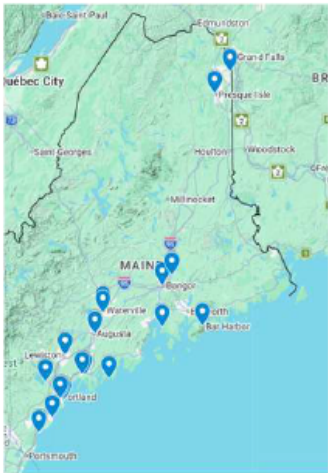
- NASA aligned support.
- Workforce development support
- Research and Education support
- Up to \$50k – EPSCOR \$750k



MSGC Affiliate Members:

Bates College, Lewiston
Bigelow Laboratory for Ocean Sciences, E. Boothbay
bluShift Aerospace, Brunswick
Bowdoin College, Brunswick
Challenger Learning Center of Maine, Bangor
Colby College, Waterville
College of the Atlantic, Bar Harbor
Gulf of Maine Research Institute, Portland
Maine Manufacturing Extension Partnership, Augusta
Maine Maritime Academy, Castine
Maine Mathematics & Science Alliance, Augusta

ME School of Science and Mathematics, Limestone
Maine Space Corporation, Brunswick
Saint Joseph's College, Standish
Southern Maine Community College, So. Portland
Thomas College, Waterville
The Roux Institute at NE University, Portland
University of Maine, Orono
University of New England, Biddeford
University of Southern Maine, Portland
Valt Enterprises, Inc., Presque Isle
Wells National Estuarine Research Reserve, Wells
York County Community College, Wells





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