



# ABOUT THE NORTH DAKOTA SPACE GRANT CONSORTIUM

Spring 2019

The main objective of the North Dakota Space Grant Consortium (NDSGC) is to provide and support opportunities for our students to pursue research in science, technology, engineering, and mathematics (STEM) fields and prepare them for careers that support NASA's goals and the high-tech workforce development needs of North Dakota. The primary efforts included in our strategic plan are described below.

## NASA Internships, Fellowships, and Scholarships

- Send qualified North Dakota undergraduate and graduate students to participate in internship programs at NASA centers
- Provide qualified North Dakota undergraduate and graduate students with fellowship and scholarship opportunities (including the Community College and Tribal College Fellowship Bridge Program) that encourage completion of STEM degrees and employment in the STEM workforce

## Higher Education

- Support North Dakota college student team participation in NASA competitions in rocketry; robotics; high-altitude ballooning; aircraft, rover, and satellite design; and other STEM areas
- Sponsor Summer Faculty Fellowships which allow North Dakota faculty to develop or revise courses that are NASA-relevant
- Provide North Dakota college students with travel grants to present research findings on conferences and immerse them in their STEM field
- Increase North Dakota K-12 teacher knowledge and competence in NASA- and space-relevant educational content through pre-service and in-service workshops

## Research Infrastructure

- Provide funding to North Dakota faculty to complete NASA-relevant Research Focus Area projects that lead to long-term, self-sustaining, collaborative research endeavors in the state
- Support research and projects relevant to the UND Human Spaceflight Laboratory

## Pre-college Education

- Support FIRST Robotics, Near-Space Balloon Competition, classroom visits, space camps and other areas of STEM and NASA-relevant inquiry for K-12 students

## Informal Education

- Develop a state-wide public service program, engaging college students through the STEM Ambassadors Program to educate students, teachers, faculty, and the general public about NASA, its mission, and its benefits to the nation

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