

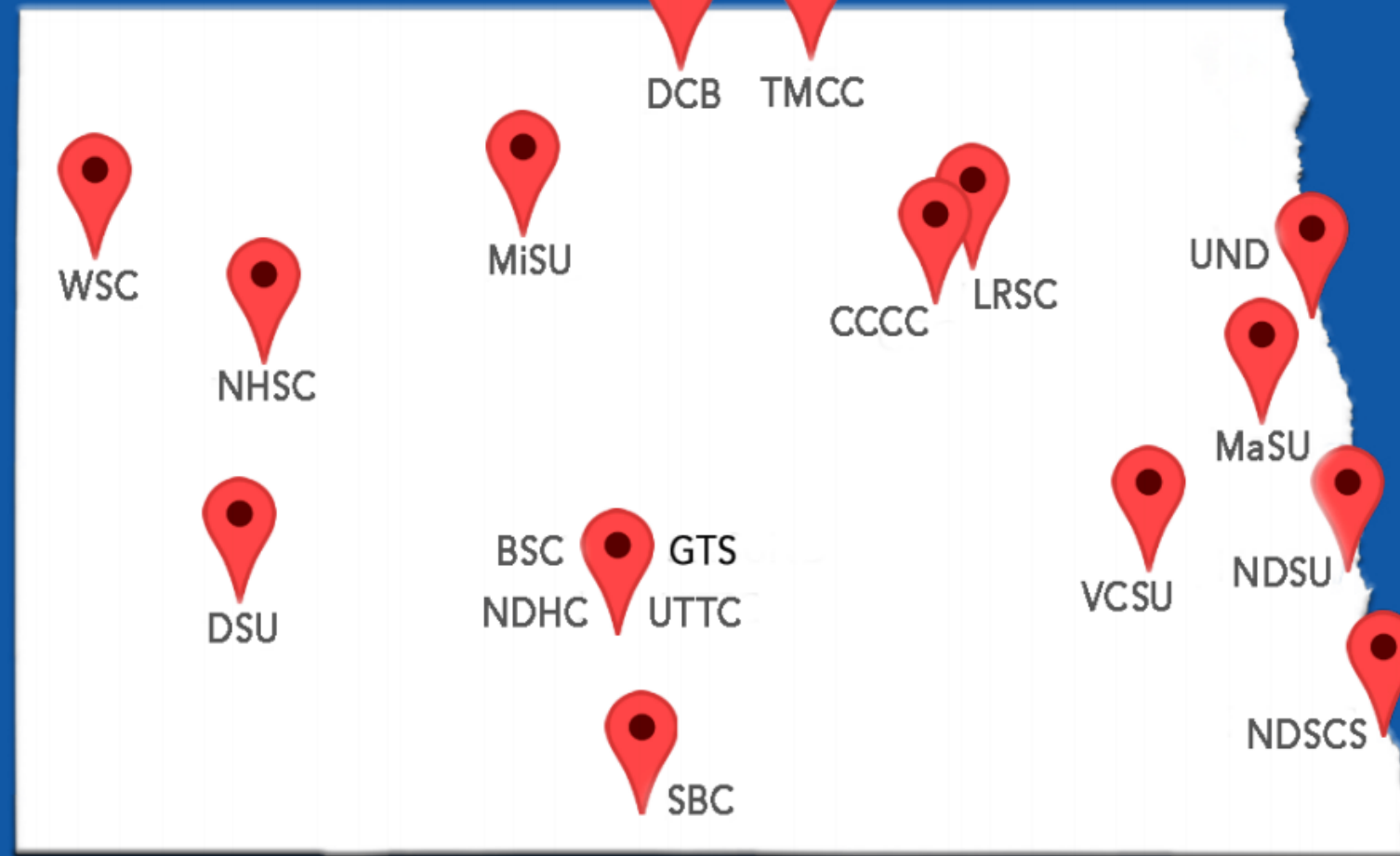
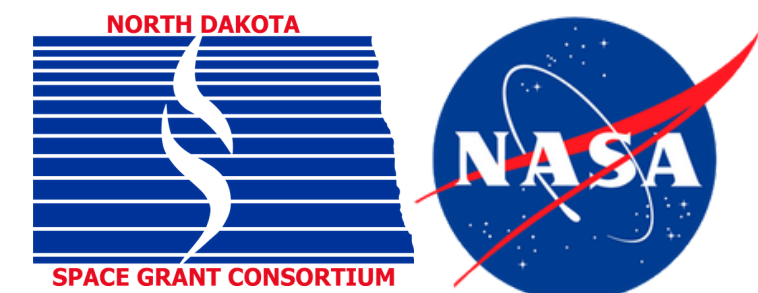
# NDSGC Fellowships

to be eligible, college students must:

- Maintain a 3.0 GPA
- Be a US Citizen
- Pursue a project that aligns with NASA's goals
- Be enrolled in one of these ND institutions



[Visit our Fellowship Page](#)



Bismarck State College  
Dakota College at Bottineau  
Gateway to Science  
Mayville State University  
North Dakota State College of Science  
Nueta Hidatsa Sahnish College  
State Historical Society of North Dakota  
United Tribes Technical College  
Valley City State University  
Cankdeska Cikana Community College  
Dickinson State College  
Lake Region State College  
Minot State University  
North Dakota State University  
Sitting Bull College  
Turtle Mountain Community College  
University of North Dakota  
Williston State College

# Science



- Dwarf Galaxy Alignment - UND, 2015
- A Sustainable Tuvalu , **Remote Sensing** - UND, 2015
- Review of Optical Dating Literature: Corrections for Phase of Interstitial **Water** - NDSU, 2016
- Characterization of the Kepler Spacecraft's Objects of Interest and **Exoplanet** Candidates - UND, 2016
- Decoding of regulatory logic and network reconstruction of hematopoietic **genes** - UND, 2016
- Measuring the Specific Frequency of Globular Clusters around Spiral **Galaxies** - UND, 2016
- Photometry and Transit Timing Analysis of Recently Discovered Hot Jupiter **Exoplanets** - UND, 2016
- The Interaction of Radio Frequency and Lambda **DNA** - UND, 2017
- Probing the Globular Cluster Population of Edge-On Spiral **Galaxies** - UND, 2018
- Unveiling the Nature of Red-Sequence Spiral Galaxies - UND, 2018
- Levels of Metformin in **Soybeans** - DCB, 2019
- Investigating Deliquescence and Vapor Diffusion in Halite Evaporites - UND, 2019
- Supernovae Distributions and their Relationships to Classes of Stars - UND, 2020

As long as your project reflects NASA's goals, you can propose any topic!

Past Fellowships



# Technology



- Unmanned Aerial Vehicle (UAV) Uses in **Agriculture** - LRSC, 2015
- Wireless Body Area Network Hardware Systems - UND, 2015
- Friction Loss for Fluid Flow in Various Miniature Channel Applications - UND, 2015
- Flexible **Antennas** for Space Monitoring and Communication Systems - UND, 2016
- Existence and Uniqueness of Projectile Motion Model - MiSU, 2016
- Aerodynamics Research using a Piper PA12 **Aircraft** - UND, 2016
- **Pilot** Headset Augmentation - Navigation and Physiological Feedback Device - UND, 2017
- Electromyography Analysis of **Muscles** when Facilitated with Tape During Exercise - UND, 2017
- Leg Blood Flow Restriction during **Rowing** Exercise as a Countermeasure for Microgravity - NDSU, 2017
- SQL Server Implementation for Radon Detectors for the Deep Underground Neutrino Experiment - VCSU, 2019
- Can **Safety Management** System Attributes be Determined? Developing a Survey - UND, 2019
- Decision-Making for SelfReplicating **3D Printed** Robot Systems - NDSU, 2019
- Comprehensive Metabolic Panel (CMP) and Extreme Environments - UND, 2019
- Deep Underground Neutrino Experiment (DUNE) - VCSU, 2019

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Past Fellowships



# Engineering/Math



- Inverse Problem for Projectiles, UND, 2015
- Advanced Methods of Cooling of Internal Gas Turbines - DCB, 2015
- Quantifying Cure in Industrial Composites Using Fourier Transform Infrared **Spectroscopy** - UND, 2016
- Mathematical **Modeling** of Planetary Motion - MiSU, 2016
- Energy Harvesting of Prosthetics - NDSU, 2016
- A **Study** of Continuously Rotating Detonation Engines - NDSU, 2016
- North Dakota Solar Eclipse **Ballooning** Project - UND, 2017
- Eclipse Balloon Project Code Support - UND, 2017
- Embedding Biomimetic **Silk Fibers** and Thin Films with Carbon Nanoparticles (Spiders) - NDSU, 2018
- Unsteady Wake/Blade Interaction Simulations - NDSU, 2019
- **Rocket Combustion** Chamber Design and Structured Analysis - NDSU, 2019
- Nozzle Design and Diagnostics for Supersonic Flow **Fluid Dynamics** - NDSU, 2019
- Design of Optically Clear PMMA/GOx Hybrid **Rocket Propulsion** System - NDSU, 2020
- Manufacturing and Testing of Composites Made With Recycled Carbon Fibers - NDSU, 2020

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Past Fellowships



# Human Factors



- A **Lunar** LOX Production Feasibility Study - UND, 2015
- Inventory of **Personality, Anxiety, and Depression** on Lunar/Mars Habitat participants - UND, 2014
- Development of a Prototype Movement Assistance System for Extravehicular Activity **Gloves** - UND, 2015
- Developing a Space Simulator Habitat - UND, 2016
- An analysis of the **Geology Tools** Used During the Apollo Lunar Program - UND, 2016
- Structural Health Monitoring (SHM) of Spacecraft Structures - UND, 2016
- UND **Habitat** Modeling and Additions - UND, 2017
- Analysis of Human Exploration Research Analog (HERA) Crew Audio/Visual **Journals** - UND, 2017
- Effects of Locomotor Gaits in Reduced Gravity Environments on **Muscles** - UND, 2018
- Initial Research for Analysis of Ammonia-Water Thermodynamic Power Cycle on the Lunar Surface - UND, 2019
- Asteroid Farming: Investigating the Suitability of Asteroid CI Chondrite Soil for **Plant Growth** - UND, 2019
- **Biosphere 2**: Regeneration of Life Support Commodities - UND, 2019
- Construction of the ND Aurora Camera (NoDDAC) to Aid in **Citizen Science** and Space Weather - UND, 2019
- Impacts on Cognitive Decay & **Memory Recall** During Long Duration Spaceflight - UND, 2020
- Critical Contingency EVA's for **3D-Printed** Planetary Habitats - UND, 2020
- Modeling Inflatable Space Structures - UND, 2020

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Past Fellowships



# Local ND impacts



- STEM Outreach - UND, 2015
- Measurements of **Light Pollution** in the South Unit of Theodore Roosevelt National Park - DSU, 2015
- Development of Soil after 60 Years at the Unreclaimed Custer Mine in McLean County - DSU, 2015
- Using Side Scanning Sonar to Map Bottom Substrate Features on North Dakota **Rivers** - VCSU, 2016
- **Urban Heat** Island Effect in Dickinson, North Dakota - DSU, 2016
- Light Pollution in Western North Dakota due to Regional **Oil Development** - DSU, 2016
- Radon Detection - VCSU, 2016
- Agricultural Wastes as Solid Biofuel - NDSU, 2016
- A Background Radiogenic Analysis of the Black Hills, South Dakota - UND, 2016
- Predicting **West Nile Virus** Occurrences in North Dakota Using Data Mining Techniques - UND, 2016
- Sublimation Modeling in Paleoclimate Reconstruction of the Great Basin, North America - NDSU, 2018
- Exploring Immersive Technologies for (**Atmospherium**) Dome Theater Learning - UND, 2019
- Introducing **Legumes** as a Food Production System - DSU, 2020
- Grand Forks **Floods** Vulnerability and Housing - UND, 2020

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Past Fellowships

