



STEM Team-based Challenges and Competitions

Are you interested in forming or joining a **STEM team-based competition or challenge**? Consider the STEM programs below and learn how you may apply for NDSGC funding! First-year teams are eligible for awards up to \$4,000. Returning teams who have satisfied all past NDSGC deliverables may be eligible for awards up to \$12,000. Awards may vary each year, contingent on the budget and the NDSGC's discretion.

Eligible Students are:

- International Students and/or US Citizens
- Enrolled at an [NDSGC-affiliated institution](#) or ND K-12 institution
- Advised by an NDSGC affiliate faculty member or K-12 educator
- Any major (STEM and non-STEM majors are encouraged to apply!)

What STEM TBL programs are eligible?

Programs must engage students in team-based learning (TBL) that includes the engineering design process, NASA Project Lifecycle, scientific method, and/or another teaching strategy approved by the NDSGC. TBL programs must be hands-on, experiential, and/or inquiry-based and focused around STEM or NASA-relevant student learning objectives. It is preferred that the STEM programs engage students in a semester- or year-long timeline, requiring project-based deliverables (notice of intent, request for proposals, and assessments such as: preliminary design review, critical design reviews, final reports, etc.), and culminate in a final challenge, competition, and/or judging event.

Ready to Apply?

To request team support, please submit a proposal to the NDSGC on the Submittable application portal. Submittable requires one individual to create a log-in. This individual can be the faculty advisor or student team lead. All accounts are free to create, and this portal will be used throughout the entire award period, if the team is selected for funding. The NDSGC recommends opening and reviewing the form's questions, as applicants will be able to save their progress and return back at later times.

To apply, click the following link during the application window:

- <https://ndspacegrant.submittable.com/submit>

Eligible STEM programs may include, but are not limited to:

College:

AIAA Design, Build, Fly Competition
Airport Cooperative Research Program
ASME Human Powered Vehicle Challenge (e-HPVC)
ASME Innovative Additive Manufacturing 3D Challenge (IAM3D)
AUVSI UAS Competition
Base 11 Challenge
First Nations Launch
Formula SAE Challenges
Glenn University Student Design Challenges
Great Lunar Expedition for Everyone (GLEE)
High Altitude Student Platform (HASP)
IEEEExtreme Challenge
International 1/4 Scale Tractor Student Design Competition
Microsoft Imagine Cup
NASA Micro-G Neutral Buoyancy Experiment Design Teams (NExT)

NASA Robotic Mining Competition:
Lunabotics
NASA Spacesuit User Interface Technologies for Students (SUITS)
NASA Student Launch
NASA's Big Idea Challenge
NASA's Human Exploration Rover Challenge
First Nations Launch
National Robotics League (NRL)
National SG High Altitude Balloon Project (MT)
Rehabilitation Engineering and Assistive Technology Society of North America (RESNA)
RockOn Rocketry Competition
RockSat Programs
SEAS Design Challenges
Space Grant (in-the-) Midwest High-Power Rocketry Competition
Stanford Center on Longevity Design Challenge
Student Steel Bridge Competition
Student Unmanned Aerial Systems Competition
University Rover Challenge

VEX U
WEF Student Design Competition (SDC)
RASC-AL
Spaceshot
Spaceport America Cup
Student Thermal Energetic Activity Model (STEAM)
Texas Design Challenge
NASA Minds
Wearables Quest Challenge
...and more!

K-12

FIRST Robotics Competition
FIRST LEGO League Challenge
Kerbal Rocketry Challenge
Real World Design Challenge (RWDC)
RockOn Rocketry Competition
The American Rocketry Challenge
...and more!