



New Jersey Space Grant Consortium

Background

The New Jersey Space Grant Consortium (NJSGC) is NASA's educational arm in New Jersey for higher education, charged with progressing the goals of the National Space Grant program.

Objectives and Programs

The objectives of NJSGC are to develop programs to further space science, aerospace and STEM (science, technology, engineering, mathematics) education, as well as to foster research and development in New Jersey. NJSGC acts through its affiliates as an umbrella organization, coordinating and developing space science and aerospace-related, high technology, educational and research efforts throughout New Jersey. NJSGC creates and encourages educational and research networks. It acts as a point of contact in New Jersey for space science and STEM education, partnership building and in engaging students and non-students in activities that are in NASA's educational framework.

In fulfillment of its mission, NJSGC

- Provides undergraduate and graduate level fellowships,
- Assists curriculum and lab development,
- Provides seed funding for cutting edge research initiatives,
- Supports student research clusters at N.J. academic institutions,
- Recruits female and minority students to STEM education and research,
- Supports K-12 math and science teacher training programs,
- Supports planetariums and informal education programs.



Around 90% of NJSGC fellowship and other award recipients have gone on to graduate study or employment in STEM.

Affiliate Institutions

Bloomfield College, Georgian Court Univ., Liberty Science Center, Medgar Evers College, N.J. City Univ., N.J. Inst. of Technology, N.J. Medical School, N.Y. City Research Initiative, Princeton Univ., Ramapo College, Astronomy Education Ctr. at Raritan Valley Community Coll., Rowan Univ., Rutgers Univ. (lead institution), Seton Hall Univ., Stevens Inst. of Technology, The College of N.J., Union County College

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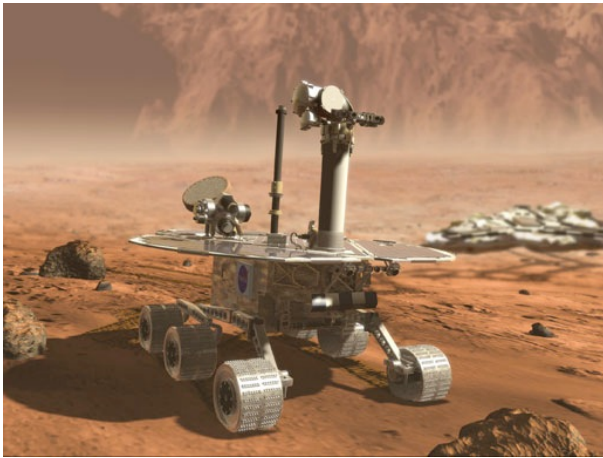




NJSGC Programs at a Glance

Fellowship Programs

- **Academic Year Fellowships**
One year fellowships for undergraduate students, to conduct research in STEM or space sciences.
- **Summer Fellowships**
Summer fellowships for undergraduate students to conduct research at N.J. universities or in industry.
- **NASA Internships**
Undergraduate internships at a NASA Academy or at a NASA center.
- **Graduate Student Fellowships**
Fellowships for graduate students conducting research in STEM and/or aerospace fields.



Research Programs

- **Mentored Research Clusters**
Grants to student research clusters in N.J. colleges for summer (or yearlong) research.
- **Community College Research**
Support of STEM students and faculty at community colleges for research activities.
- **Research in Science and Education**
Summer research program for minority students to conduct research at New Jersey doctoral institutions.

Higher Education Programs

- **Senior and Multi-Year Project Support**
Support of space science, exploration or aerospace related senior projects in N.J. universities.
- **Industry Co-Op and Internship Program**
Placement of undergraduate students in co-op programs and internships industry.
- **Space Science Course Development**
Grants for development of new courses at N.J. universities in space science and engineering.
- **Student Development**
Summer enrichment programs for entering 1st year college students in STEM fields.
- **Bridge Programs for STEM Education**
Programs that combine high school and college students to encourage and promote science study. Supported programs include NYCRI (at NASA GISS), TARGET (at Rutgers), GIST (at GCU), EOF offices, and Liberty Science Center.
- **Rock-On and Rock-SAT with NASA**
N.J. college faculty and students attend the Rock-On and Rock-Sat workshops on sounding rockets, launching payloads 75 miles into space.

Pre-College Programs

- **STEM Teacher Training**
Support of in-service and pre-service K-12 science teacher training programs statewide.
Support of science and engineering majors who wish to become STEM teachers.

Informal Education Programs

- **Planetarium Support**

