



NASA Nebraska Space Grant & EPSCoR Program

FACT SHEET

NASA Nebraska Space Grant Consortium

Nebraska is part of the NASA Space Grant College & Fellowship Program, bringing \$564,500 in NASA funds to Nebraska in FY 2005.

The Consortium enhances the quality of aerospace research and education throughout Nebraska through workforce development activities. Such activities allow Nebraska colleges and universities to implement balanced programs of aerospace research, student scholarship support, and public service programs



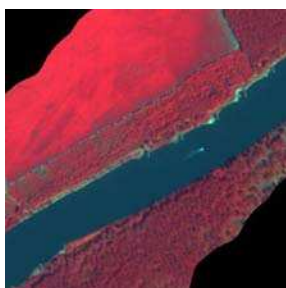
Funding Opportunities

Space Grant Scholarship for Service Program

The scholarship program is focused on activities where the student is engaged with a faculty mentor in an aerospace research project or workforce development activity such as an Internship with NASA or industry.



Seed Research Program



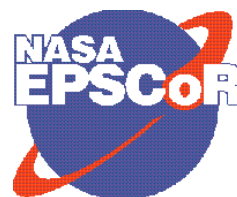
Nebraska's faculty researchers may apply for aerospace seed research funding. Past research areas include remote sensing, approximate agreement algorithms, and biomedical research, among others. Projects which lead to economic or workforce development for Nebraska are given priority.

Travel Grants

Travel grants are awarded to faculty and students to present research, attend scholarly conferences, and build collaborations with NASA scientists at NASA field centers.

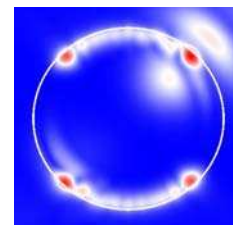
NASA Nebraska EPSCoR

The Experimental Program to Stimulate Competitive Research, initiated by the NSF in 1980, assists states with low levels of federal R&D funding. NASA EPSCoR strives to develop academic research areas that are long-term, self-sustaining, and nationally competitive. Nebraska's EPSCoR award for FY 2005 is \$825,000 from NASA.



The program fosters collaboration among institutions, with state and local government, and with business and industry. The Aeronautics Education, Research, & Industry Alliance (AERIAL) is a NASA EPSCoR 2000-2006 Nebraska initiative which consists of 3 Collaborative Research Teams (CRTs):

- The Small Aircraft Transportation System (SATS) team works with NASA to increase "connectivity" between remote communities and transportation centers in urban areas by utilizing the nation's 5,400 public-use general aviation airports;
- The Airborne Remote Sensing team focuses on how remote sensing contributes to the developing field of precision agriculture; and
- The Numerical Simulation of Combustion Fuel Droplets team gathers data for comparison with theoretical predictions of burning rates, flame structures, and extinction conditions. The improved understanding of droplet combustion may contribute to the clean and safe utilization of fossil fuels.



Laser Interaction

Substantial results of the NASA Nebraska EPSCoR program include:

- 42 new or expanded collaborations with NASA;
- 24 new grants totaling \$4.39 million in non-NASA research funding; and
- 86 student researchers and NASA Center Interns



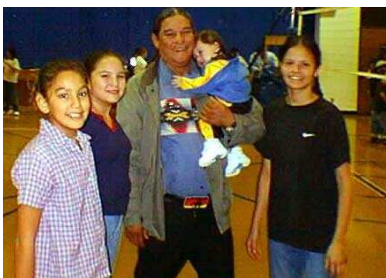
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PARTNERSHIPS

Academic Affiliates

The NASA Nebraska Space Grant has established partnerships across the state. This ensures that the program is accessible for all Nebraska citizens.

- University of Nebraska-Omaha
- University of Nebraska-Lincoln
- University of Nebraska-Kearney
- University of Nebraska-Medical Center
- Chadron State College
- College of Saint Mary
- Creighton University
- Grace University
- Hastings College
- Little Priest Tribal College
- Metropolitan Community College
- Nebraska Indian Community College
- Northeast Community College
- Western Nebraska Community College
- Winnebago Schools



The Nebraska Space Grant & EPSCoR Program supports research, outreach, and education activities at over 15 academic affiliates across the state.

Industry and Government Affiliates

Many of these organizations have internship opportunities with the NASA Nebraska Space Grant and EPSCoR Program. See nasa.unomaha.edu for further information.

- Center For Advanced Land Management Information Technologies (CALMIT)
- City of Blair
- Duncan Aviation Inc.
- Great Plains Girl Scouts
- JetLinx Aviation
- Mutual of Omaha
- Native IMAGE (Institute for Managing Geospatial Technologies)
- Nebraska 4-H
- Nebraska Department of Aeronautics
- Nebraska Academy of Sciences
- Nebraska Aviation Council
- Omaha Airport Authority
- Strategic Air & Space Museum
- University of Nebraska Technology Park
- Transportation Security Administration
- Tuskegee Airmen, Inc.
- Union Pacific Railroad
- GIS Workshop, Inc.
- 99th Pursuit Squadron Civil Air Patrol



The Nebraska Space Grant & EPSCoR Program supports workforce development activities by providing opportunities for students to attend conferences.

