



UWW ORSP DEADLINE: 27 JANUARY 2012

WISCONSIN SPACE GRANT CONSORTIUM GRADUATE FELLOWSHIP PROGRAM

INTRAMURAL GRANT APPLICATION PACKAGE

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University of Wisconsin-Whitewater Office of Research and Sponsored Programs Intramural Transmittal Form. ONE original, complete ORSP Transmittal Form including all relevant funding competition information, proposal information, required clearances, and required signatures must accompany each proposal submitted to ORSP.

X

Proposal Development and Submission Instructions. Each University of Wisconsin grant program has varying proposal development and submission requirements. Principal Investigators must review this application package carefully and adhere to specific program requirements to be competitive.

X

Grant Program Forms. Each University of Wisconsin grant program requires the submission of different forms. All relevant forms are included in this application package. Electronic versions of all forms can be accessed on the ORSP Funding Page (<http://www.uwworsp.org/media/funding.htm>).

X

Additional Proposal Development and Submission Resources. University of Wisconsin grant application packages may include additional resource information including evaluation/review criteria, description of proposal review processes and deadlines, and other pertinent appendices.

The Office of Research and Sponsored Programs can provide additional information, proposal development assistance, and copies of funded proposals. ALL proposals must be submitted to ORSP. Grants submitted directly to System or Extension may not be reviewed.

DENISE EHLEN, Director, 262-472-5212, ehlend@uww.edu
RON FLEISCHMANN, Acting Assistant Director, 262-472-5212, fleischr@uww.edu





UNIVERSITY OF WISCONSIN
WHITWATER

RSP APPROVAL & CERTIFICATION
TRANSMITTAL



DO NOT COMPLETE SHADED SECTIONS WITH DOUBLED BORDER – FOR UWW RSP USE ONLY

FUNDING COMPETITION INFORMATION Deadline:		RSP USE ONLY	ID:
1. Sponsor & Program:		Date Submitted:	
2. Address:		Number of Copies to Sponsor (original +)	
3. Telephone:	Fax:	Binding of Original: <input type="checkbox"/> Clip <input type="checkbox"/> Staple <input type="checkbox"/> Other <input type="checkbox"/> N/A	
4. Web:		GT Proposal Entry: GT Award:	
PROPOSAL INFORMATION			
5. Principal Investigator:		5a. Department/Division/Institution:	
5b. Address:		Phone:	Fax: Email:
6. Co-Investigator:		6a. Department/Division/Institution:	
6b. Address:		Phone:	Fax: Email:
7. Co-Investigator:		7a. Department/Division/Institution:	
7b. Address:		Phone:	Fax: Email:
8. Co-Investigator:		8a. Department/Division/Institution:	
8b. Address:		Phone:	Fax: Email:
9. Project Title:			
10. Funding Type <input type="checkbox"/> New <input type="checkbox"/> Renewal/Continuation		AWARD INFORMATION – RSP USE ONLY <input type="checkbox"/> GRANT <input type="checkbox"/> CONTRACT	
11. Total Request \$		New Account <input type="checkbox"/> Non-Federal <input type="checkbox"/> Federal (CFDA#)	
12. Match Information \$		Org Information <input type="checkbox"/> New <input type="checkbox"/> Add To	
13. Begin Date End Date		Total Award Begin Date End Date	
REQUIRED CLEARANCES – Does the project involve:			
14. toxic, infectious or carcinogenic/mutagenic material? Use recombinant DNA technology?		Approved? (choose one)	
15. use of human subjects, human tissue or vertebrate animals?		<input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> Pending	
16. action involving space, remodeling, or construction?		<input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> Pending	
17. hiring non-UWW personnel?		<input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> Pending	
18. requires release time by PI (and/or Co-Is) in support of project activities?		<input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> Pending	
19. creation of new degree programs or services?		<input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> Pending	
20. potential environmental impacts, which require review under the Wisconsin Environmental Policy Act?		<input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> Pending	
REQUIRED SIGNATURES		PLEASE RETURN FORM TO RSP	
PRINCIPAL INVESTIGATOR/PROJECT DIRECTOR		SIGNATURE	DATE
I certify that the plan detailed in the proposal/contract complies with all campus, state, and federal regulations and policies and reflects University, College/Division, and Department/Unit goals. This project is achievable as described, including the limitations of time, resources, and personnel expertise. All required clearances have been satisfied. I have disclosed any possible conflicts of interest during the proposal development process. If awarded, I agree to conduct the proposed project in compliance with (1) the conditions of the grant and (2) with all policies of UWW, UWS, and the State of Wisconsin.		TYPED NAME:	
I authorize the use of my name and grant information for university publication. <input type="checkbox"/> NO <input type="checkbox"/> YES (initial)			
DEPARTMENT CHAIR/UNIT DIRECTOR		SIGNATURE	DATE
I certify that I have reviewed the proposal/contract and found it to be complete, including required clearances, budget, and commitments involving space, faculty/staff time, and matching funds. In addition, I certify that all resources and other provisions of any award will be fulfilled. A match (check one) <input type="checkbox"/> has OR <input type="checkbox"/> has NOT been pledged. Cash match will be satisfied by a transfer of funds from org code _____-_____ in the amount of \$_____ or via in-kind contributions as described in the budget (narrative).		TYPED NAME:	
COLLEGE DEAN/DIVISION DIRECTOR(S)		SIGNATURE	DATE
I certify that I have reviewed the proposal/contract and found it to be complete, including required clearances, budget, and commitments involving space, faculty/staff time, and matching funds. In addition, I certify that all resources and other provisions of any award will be fulfilled. A match (check one) <input type="checkbox"/> has OR <input type="checkbox"/> has NOT been pledged. Cash match will be satisfied by a transfer of funds from org code _____-_____ in the amount of \$_____ or via in-kind contributions as described in the budget (narrative).		TYPED NAME:	
<i>Applicants submitting proposals including an international component must secure the signature of the Director of the Center for Global Education in this cell.</i>		TYPED NAME:	
RESEARCH AND SPONSORED PROGRAMS CERTIFICATION		SIGNATURE	DATE
By signing this transmittal, I certify that this proposal/contract is consistent with campus, state, and federal regulations; is within the campus' research/service mission; and is approved for submission to the funding agency.			
INITIAL HERE TO APPROVE GRANT/CONTRACT ACCEPTANCE:		DATE:	TYPED NAME: DENISE EHLEN

WISCONSIN SPACE GRANT CONSORTIUM
GRADUATE FELLOWSHIP PROGRAM

SPECIAL NOTES

Applicants to the Graduate Fellowship Program are required to submit their applications to UW-Whitewater WSGC Advisory Board Representative Rex Hanger (hangerr@uww.edu, x5258) prior to submission to ORSP.

The Office of Research and Sponsored Programs will assist applicants with proposal submission using the sponsor's web-based proposal submission system.

Contact Denise Ehlen (ehlend@uww.edu, x5212) with additional questions.

**Graduate Fellowship Program
Announcement of Opportunity 2012-2013**

**Submittal Deadline: February 3, 2012
Award Announcements: March 16, 2012**

Purpose:

Partial graduate fellowship awards to support outstanding graduate students pursuing aerospace, space science, or other interdisciplinary space-related graduate independent research or design.

Awards:

Up to \$5,000* independent research award for the 2012 summer and/or 2012-2013 academic year.

**Subject to availability of funds.*

Requirements:

- U.S. citizen
- Enrolled full-time in, admitted to, or applied to any graduate degree program at a [WSGC college or university](#)
- Minimum 3.0 GPA (Proposals that include a GPA of less than 3.0 will be evaluated on a case-by-case basis.)
- Above average GRE scores
- Research or design in a field related to space or aerospace
- Completed application packet (see Additional Requirements link below)

The Consortium invites applications for Graduate Fellowships for the 2012-2013 academic year. Application forms must be completed, and be accompanied by supporting documentation. The Consortium especially encourages applications from members of minority groups, women, and persons with disabilities, and from those pursuing interdisciplinary aerospace studies in, but not limited to, engineering, the sciences, architecture, law, business, nursing and medicine. Award winners will be chosen based on academic performance, space-related promise, and the application.

Questions about Graduate Fellowships? contact:

Wisconsin Space Grant Consortium
University of Wisconsin-Green Bay
2420 Nicolet Drive
Green Bay, Wisconsin 54311-7001
Phone: (920) 465-2108
E-mail: wsgc@uwgb.edu

Graduate Fellowship Program Additional Material Requirements

Supporting Materials Required with Application (uploaded during submittal):

1. Include a two to four page proposal containing the following: (a) a clear, concise statement of the space, aerospace, or space-related research, technology, or design project in which you will be engaged or you propose to conduct during the period of this award (indicate if this research is directly involved with the degree you are pursuing). Include how your independent research, at least in a broad sense, aligns with [NASA Directorate](#) or Center goals. (b) tasks, schedules and clearly stated expected results, (c) evidence of previous interest and experience in space-related studies, and (d) the significance/value of your work for the space/aerospace field.
2. Complete academic resume containing previous degrees, majors or areas of concentration, name and address of institutions, publications if any, etc., as well as relevant work experiences and accomplishments.
3. One-page Budget Summary for your independent research that should be for your sole benefit. This should include a brief explanation of any major expenditure items. Any travel or other expenses should be related to your research.
 - Applicants should avoid the following two problem areas:
 - NASA training grants such as WSGC cannot provide funding to buy computers.
 - Salary is not an allowable expense. However, you may request living stipends, tuition offsets, supplies and expenses, and similar sorts of funding.
4. Copies (unofficial are acceptable) of your undergraduate transcript(s)
5. Copies (unofficial are acceptable) of your graduate transcript(s), including most recent.
6. Two (2) letters of recommendation: one from your academic advisor or mentor stating his or her willingness to supervise your space, aerospace or space-related project and a description of his or her advisory role, and one from another faculty member, employer, or aerospace professional familiar with your proposed area of work.
7. [Certification Page](#): Download, Sign, and Scan this page for upload.

WHAT YOU NEED TO KNOW ABOUT YOUR WSGC AWARD (Undergraduate Research and Graduate Fellowship)

REPORTS: Along with this award:

1. You will be asked to submit an Interim Report to the WSGC Program Office at mid-point of your project period. This report should be a 1-2 page summary describing your independent aerospace-related research for the fall semester.
2. You will be asked to submit a Final Report to the WSGC Program Office within 30 days after your project period ends.
These reports should include a brief (ca. 200 word) abstract and (1-3 page) executive summary, reviewing your independent aerospace research supported by your WSGC Scholarship. We encourage you to completely discuss your research efforts and findings with your advisor. It would be appropriate to attach any article or paper presented on your topic during the year. The abstracts and summaries may be included in our final report to NASA at the end of the year. Please have your final report signed by your advisor.
3. Report submission can be either via email or regular mail. If email, send your report as an attachment to your advisor. If your advisor approves the report, the advisor should then forward the report to wsgc@uwgb.edu. The email from your advisor is sufficient as a signature. Or submit your report in hard copy to your advisor for signature and mail to the Program Office address below.

NASA/WSGC Acknowledgement: Please acknowledge the support of the National Space Grant College and Fellowship Program and the Wisconsin Space Grant Consortium in your reports, and in any papers or presentations that emanate as a result of your work.

Wisconsin Space Conference Participation: You will be honored at the 2012 Wisconsin Space Conference, scheduled for August, 2012 at UW-Whitewater, Whitewater, WI. This is a great opportunity for you to meet others interested in the aerospace field and share experiences. You will be invited to participate in the 2013 Wisconsin Space Conference, to be held at a location yet to be determined. Summary papers will be published in the Conference Proceedings of the 2013 Wisconsin Space Conference.

NASA Required Survey: You will be sent an annual tracking survey via email that is required by NASA and must be filled out and returned to the WSGC Program Office.

ALLOWABLE COSTS:

This award to the student, for independent research for the sole benefit of the grantee is intended for use as student support—tuition, supplies, etc. It is not to be applied to the purchase of equipment or other materials for the use of or retention by the student's academic or work institution. It is also not to be used to defray fees, publication costs, or other expenses (e.g., laboratory or computer access fees) that the institution ordinarily covers for students. This award is not to be used to lower or in any other way alter or supplant other merit or need-based grants made by the host college or university (it may be used to replace federal loans or work-study awards).

PAYMENT SCHEDULE:

Awards are issued in two payments, one at the start of your research and one half way through. **Each payment will be issued to your academic institution and will be applied to your student account.** If your account is paid in full you will receive a refund check from the Bursar's Office. You assume the responsibility for any and all income tax liabilities, so I strongly urge you to document all expenditures, and maintain a record of all original receipts. Please note that although this should not affect any other scholarships/fellowships or aid coming directly from your institution, this may affect your federal aid package.

Contact Information:

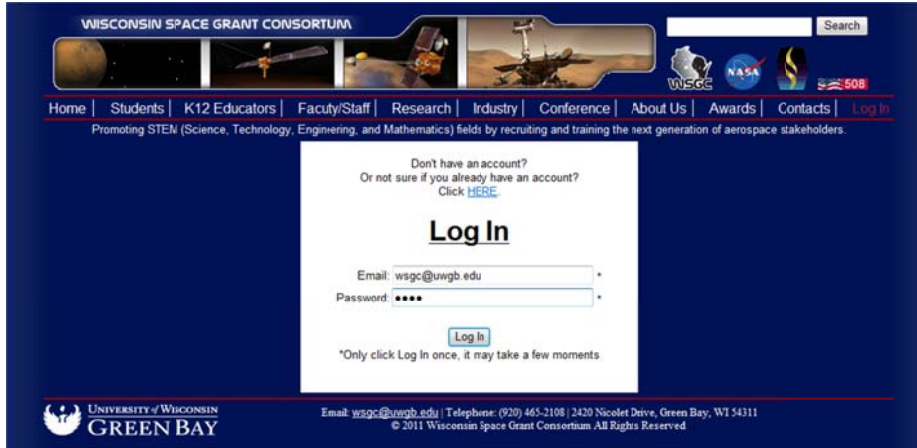
Please direct any questions, comments or concerns about the awards program, to the WSGC Program Office, in care of: Sharon Brandt, Program Manager, WSGC Program Office, University of Wisconsin-

Green Bay, 2420 Nicolet Drive, Green Bay, WI 54311-7001, Phone: (920)465-2941, Fax: (920)465-2376;E-mail: brandts@uwgb.edu

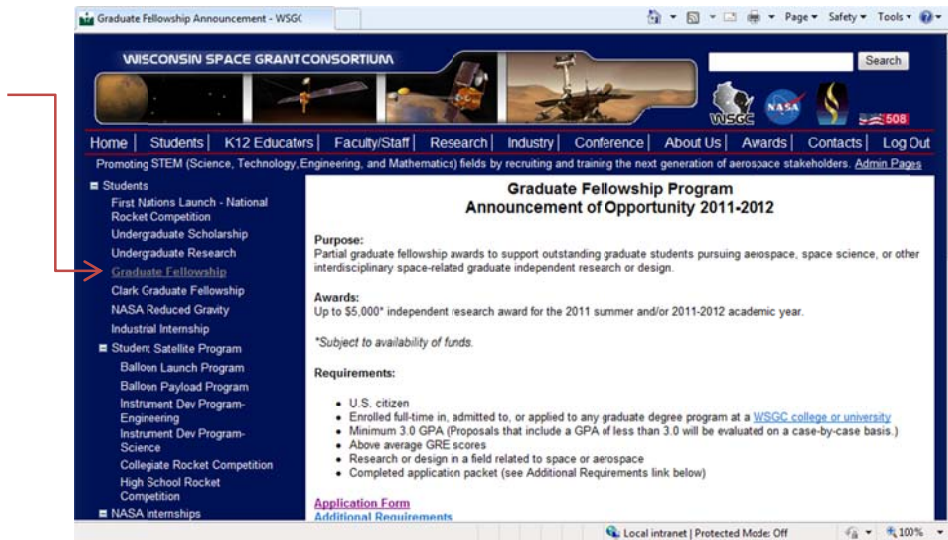
It is important that you inform us immediately of any change in address, phone number, department, advisor, institution, etc. If your research agenda is changed substantially, please have it approved by your advisor and the WSGC Program Office before proceeding.

Applying to: Graduate Fellowship

1. Login with your username and password



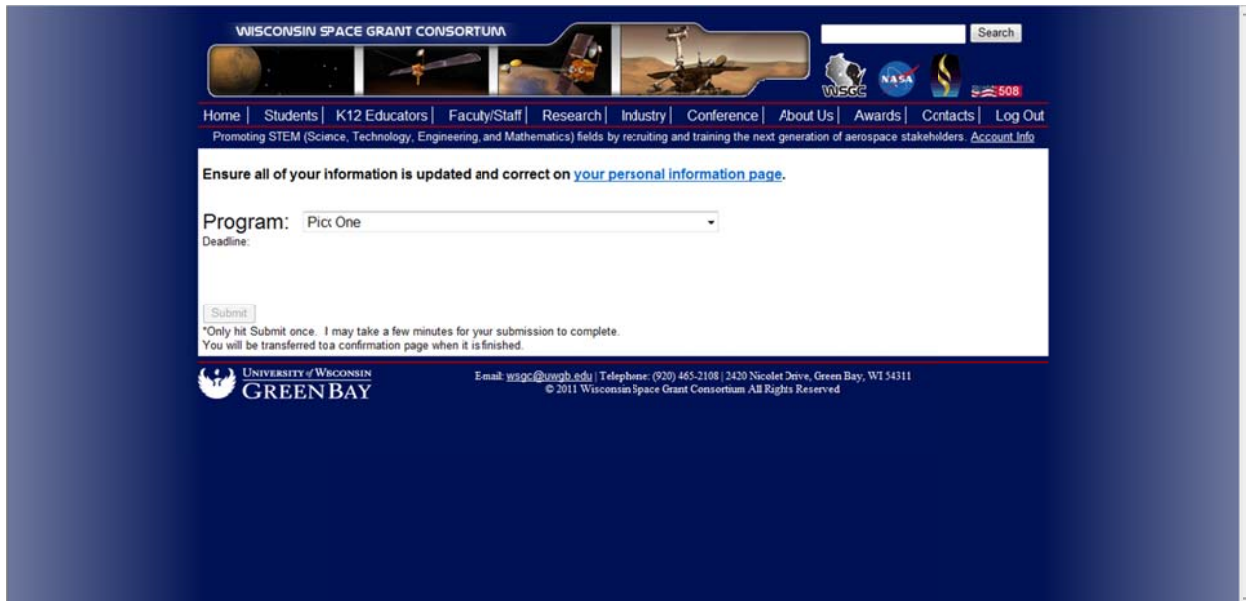
2. Click on the "Students" tab
 - a. Click on Graduate Fellowship



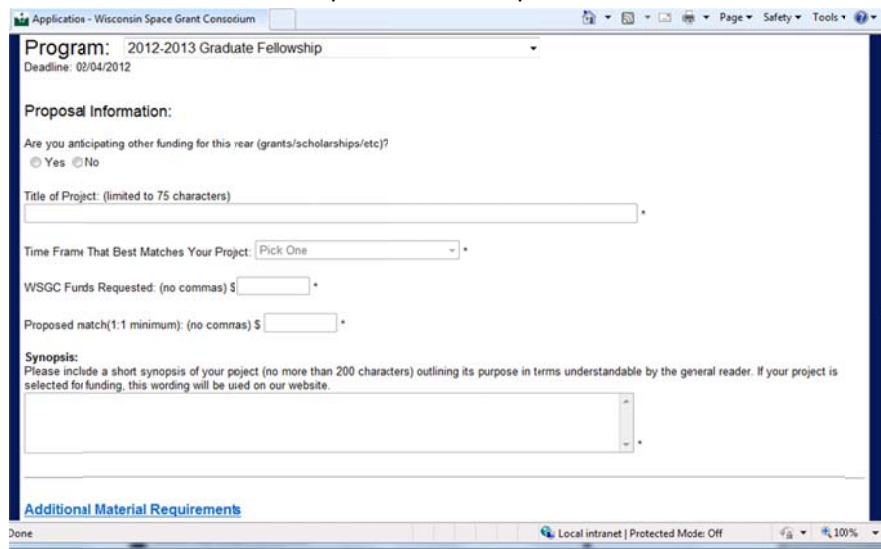
3. Click on the link that says "Application Form"



4. It will bring you to a page that looks like this:



a. Select "Graduate Fellowship" from the drop down menu to see this:



b. Read the Additional Material Requirements document and upload all required documents.

5. Hit submit and you will be applied.

****NOTE:** You must be classified as a GRADUATE to apply to this program. This is determined on your Personal Information page Under the Account info link at the top right of the screen.



NASA Centers - Research Emphases

Ames Research Center

As a leader in information technology research with a focus on supercomputing, networking and intelligent systems, Ames conducts the critical R&D and develops the enabling technologies that make NASA missions possible. Ames also is a leader in nanotechnology, fundamental space biology, biotechnology, aerospace and thermal protection systems, and human factors research. Ames research in astrobiology focuses on the effects of gravity on living things, and the nature and distribution of stars, planets and life in the universe.

In addition, Ames works collaboratively with the FAA, conducting research in air traffic management to make safer, cheaper and more efficient air travel a reality. Ames engages in information and education outreach, forms collaborative partnerships, and fosters commercial application of NASA technologies.

Dryden Flight Research Center

The Dryden Flight Research Center, located at Edwards, California, is NASA's primary installation for flight research.

Glenn Research Center

Glenn leads NASA's research in the microgravity science disciplines of fluid physics, combustion science and the field of microgravity acceleration measurement. Glenn is applying this expertise to Bioscience and engineering. The Center also designs power and propulsion systems for space flight systems in support of NASA programs and leads NASA's Space Communications Program.

Glenn leads NASA research and development in the area of Aeropropulsion, powering flight through the atmosphere and beyond. The Agency's major efforts are in subsonic, supersonic, hypersonic, general aviation, and high-performance aircraft propulsion systems as well as in materials, structures, internal fluid mechanics, instrumentation and controls, interdisciplinary technologies, and aircraft icing research. NASA Glenn also specializes in turbomachinery.

Goddard Space Flight Center

Center activities:

- Conduct a preeminent program of research in the space and Earth science disciplines using measurements from space complemented by suborbital, ground-based and laboratory measurements and by theoretical investigations;
- Develop and operate a broad spectrum of flight missions that are responsive to the needs of the science community;
- Provide and operate spaceflight tracking and data acquisition networks;
- Develop innovative technology and instruments critical to the success of our mission;
- Develop and maintain advanced information systems for the display, analysis, archiving and distribution of space and Earth science data; and
- Develop National Oceanic and Atmospheric Administration (NOAA) satellite systems that provide environmental data for forecasting and research.

Jet Propulsion Laboratory (JPL)

Research emphases not currently available. JPL is counted as a NASA Center in some cases but not others.

Johnson Space Center

Johnson leads NASA efforts in human space exploration. JSC is the home of mission control.

Kennedy Space Center

Kennedy serves as America's spaceport, the locus of nearly every NASA space launch.

Langley Research Center

More than half of NASA Langley's research is in aeronautics. Not only does Langley develop Airframe Systems, scientists also examine the layers of air planes and spacecraft fly through in Atmospheric Sciences.

Researchers have expanded their studies into other atmospheres, the kind spacecraft will find on distant planets, in NASA's Center of Excellence for Structures and Materials and in wind tunnels and test facilities.

Langley leads NASA initiatives in aviation safety, quiet aircraft technology, small aircraft transportation and aerospace vehicles system technology. It supports NASA space programs with atmospheric research and technology testing and development. Langley is home to the NASA Engineering and Safety Center.

Marshall Space Flight Center

Marshall manages the key propulsion hardware and technologies of the Space Shuttle, develops the next generation of space transportation and propulsion systems, oversees science and hardware development for the International Space Station, and handles a variety of associated scientific endeavors to benefit space exploration and improve life here on Earth.

Stennis Space Center

Stennis serves as NASA's rocket propulsion testing ground. The Applied Sciences Program bridges the gap between Earth science research results and the use of data to help its partner agencies make better informed decisions.

Goals and Objectives - NASA Directorates

The Aeronautics Research Mission Directorate (ARMD) conducts vital research to make air travel more efficient, safe, green, and to uncover leading-edge solutions for the Next Generation Air Transportation System (NextGen) in the United States. ARMD's fundamental research in traditional aeronautical disciplines and emerging disciplines helps address substantial noise, emissions, efficiency, performance and safety challenges that must be met in order to design vehicles that can operate in the NextGen. (<http://www.aeronautics.nasa.gov>)

The Science Mission Directorate (SMD) leads the Agency in four areas of research: Earth Science, Heliophysics, Planetary Science, and Astrophysics. SMD works closely with the broader scientific community, considers national initiatives, and uses the results of National Research Council studies to define a set of "Big Questions" in each of these four research areas. These questions, in turn, fuel mission priorities and the SMD research agenda. The SMD also sponsors research that both enables, and is enabled by, NASA's exploration activities. SMD has a portfolio of Education and Public Outreach projects that are connected to its research efforts. (<http://nasascience.nasa.gov>)

The Human Exploration and Operations (HEO) Mission Directorate provides the Agency with leadership and management of NASA space operations related to human exploration in and beyond low-Earth orbit. HEO also oversees low-level requirements development, policy, and programmatic oversight. Exploration activities beyond low-Earth orbit include the management of Commercial Space Transportation, Exploration Systems Development, Human Space Flight Capabilities, Advanced Exploration Systems, and Space Life Sciences Research & Applications. (<http://www.nasa.gov/directorates/heo/home/index.html>)

The Office of the Chief Technologist (OCT) serves as the NASA Administrator's principal advisor and advocate on matters concerning agency-wide technology policy and programs. The Office of the Chief Technologist (OCT) is responsible for direct management of NASA's Space Technology programs and for coordination and tracking of all technology investments across the agency. The office also serves as the NASA technology point of entry and contact with other government agencies, academia and the commercial aerospace community. The office is responsible for developing and executing innovative technology partnerships, technology transfer and commercial activities and the development of collaboration models for NASA. (http://www.nasa.gov/offices/oct/about_us/index.html)

Please visit each NASA organization website to find detailed information about current projects and current areas of interest.

National Space Grant College and Fellowship Program Strategic Plan 2002-2006 Executive Summary

The National Space Grant College and Fellowship Program Implementation Plan will guide the Space Grant program through the year 2006. This Executive Summary includes our National Vision, six National Mission Statements, and twelve National Goals. The strategic planning process involved all 52 Space Grant programs directly. Participation in the creation of the strategic plan included Space Grant Directors; Associate Directors; state, industry, and academic affiliates and NASA. In order to assure all states participate in the completion of this Plan, a participative process was used. One state, one vote. This methodology provided the opportunity for all participants and stakeholders to shape and focus the future of the National Space Grant College and Fellowship Program. This Implementation Plan is our roadmap. At its core is our support for NASA's Strategic Framework and our science and engineering education, research, and outreach programs.

VISION

The National Space Grant College and Fellowship program is a national network of colleges and universities working to expand opportunities for Americans to understand and participate in NASA's aeronautics and space programs by supporting and enhancing science, and engineering education, research, and outreach programs.

MISSION GOALS - 2001-2006

Mission Statement #1: Using our national network of scientists, engineers, and educators, enable the development of a diverse workforce of future scientists, engineers, technology professionals, and educators.

- Goal #1: Create a National Space Grant Fellowship Program and work to significantly increase the program size each year.
- Goal #2: Involve Space Grant students in research and discovery.
- Goal #3: Model diversity in Space Grant leadership, programs, and activities.

Mission Statement #2: Stimulate and nurture innovative programs to assure the development and transfer of practical applications in aerospace research and education.

- Goal #4: Identify innovative concepts and resources within and outside the Space Grant network, share information across the network, and identify sources of financial and other support.

Mission Statement #3: Cultivate a nationwide network of partners from universities, industry, museums, science centers, state and local agencies, to pursue state and national aerospace research, education, and economic development goals.

- Goal #5: Establish Space Grant as a viable state/national resource and catalyst for aerospace research, education, and economic development.
- Goal #6: Each consortium has on its Advisory Board members of science centers, industry, museums, and state and local agencies to create an environment where collaboration is encouraged and supported in areas of common interest. Representatives from the state Advisory Boards will comprise a national working group on networking which will meet at regional and national meetings and report.

Mission Statement #4: Provide access to the excitement, knowledge, and technology from America's Earth, Air and Space programs.

- Goal #7: Develop, enable, and highlight local participation in Earth, Air, and Space programs on a national level.

Mission Statement #5: Educate students at all levels by encouraging and supporting interdisciplinary and multi-disciplinary research experiences and education programs.

- Goal #8: Develop and promote national Space Grant opportunities for student research activities/space missions (e.g. Cube Sat, Cit. Explorers)
- Goal #9: The International Space Station (ISS): A Science Classroom for America. Engage the nation to be an active learner in this new science classroom by developing and flying student experiments on the ISS.
- Goal #10: Develop networks of students, faculty, and industry scientists to address workforce issues.

Mission Statement #6: Serve the general public by contributing to scientific literacy.

- Goal #11: Develop Earth, Air, and Space programs to enhance public scientific literacy and to complement community needs.
- Goal #12: Engage in all facets of the community in the excitement of scientific discovery using Science, Math, Engineering and Technology; (Edutainment, Process of Discovery).