



UWW ORSP DEADLINE: 27 JANUARY 2012

## WISCONSIN SPACE GRANT CONSORTIUM UNDERGRADUATE SCHOLARSHIP PROGRAM

# INTRAMURAL GRANT APPLICATION PACKAGE

X

**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

<b>FUNDING COMPETITION INFORMATION</b> Deadline:		<b>RSP USE ONLY</b>		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:
<b>PROPOSAL INFORMATION</b>				
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		<b>AWARD INFORMATION – RSP USE ONLY</b> <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		
<b>REQUIRED CLEARANCES – Does the project involve:</b>		<b>Approved? (choose one)</b>		
14. toxic, infectious or carcinogenic/mutagenic material? Use recombinant DNA technology?		<input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> Pending		
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		
<b>REQUIRED SIGNATURES</b>		<b>PLEASE RETURN FORM TO RSP</b>		
<b>PRINCIPAL INVESTIGATOR/PROJECT DIRECTOR</b>		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.				
I authorize the use of my name and grant information for university publication. <input type="checkbox"/> NO <input type="checkbox"/> YES (initial)		TYPED NAME:		
<b>DEPARTMENT CHAIR/UNIT DIRECTOR</b>		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:		
<b>COLLEGE DEAN/DIVISION DIRECTOR(S)</b>		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:		
		TYPED NAME:		
		TYPED NAME:		
<b>RESEARCH AND SPONSORED PROGRAMS CERTIFICATION</b>		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  
*UNDERGRADUATE SCHOLARSHIP PROGRAM*

**SPECIAL NOTES**

Applicants to the Undergraduate Scholarship Program are required to submit their application to UW-Whitewater WSGC Advisory Board Representative Rex Hanger ([hangerr@uww.edu](mailto: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](mailto:ehlend@uww.edu), x5212) with additional questions.

## **Undergraduate Scholarship Program Request for Proposals 2012-2013**

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

### **Purpose:**

Scholarships to support outstanding undergraduate students pursuing aerospace, space science, or other interdisciplinary space-related studies or research.

### **Awards:**

Up to \$1,500\* award for the 2012-2013 academic year.

\*Subject to availability of funds.

### **Requirements:**

- U.S. citizen
- enrolled full-time in, admitted to, or applied to any undergraduate 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 SAT/ACT scores
- completed application online (see Additional Requirements link below)

The Consortium invites applications for Undergraduate Scholarships for the 2012-2013 academic year. 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. Application forms must be completed for each program and be accompanied by supporting documentation.

### **Questions about Undergraduate Scholarship, 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](mailto:wsgc@uwgb.edu)

## **Undergraduate Scholarship Program Additional Material Requirements**

### **Minimum Requirements:**

U.S. citizen, Wisconsin resident during academic school year, 3.0 G.P.A. (4.0 scale), full-time student in, admitted to, or applied to a WSGC college or university. (Affiliate Member colleges and universities include: Alverno College, Carroll University, Carthage College, College of Menominee Nation, Lawrence University, Marquette University, Medical College of Wisconsin, Milwaukee School of Engineering, Ripon College, Saint Norbert College, UW-Fox Valley, UW-Green Bay, UW-La Crosse, UW-Madison, UW-Milwaukee, UW-Oshkosh, UW-Parkside, UW-Platteville, UW-River Falls, UW-Sheboygan, UW-Stout, UW-Superior, UW-Whitewater, Western Technical College, and Wisconsin Lutheran College.)

### **Files to upload:**

1. Maximum two-page statement containing the following:
  - (a) a clear, concise account of your reasons for seeking this scholarship,
  - (b) evidence of previous interest and experience in space, aerospace, or space-related studies,
  - (c) description of your present interest in the space field, and
  - (d) a description of the program of space-related studies you plan to pursue during the period of this award.
2. Copy of your high school transcript (incoming Freshmen and Sophomores only)
3. Copy of most recent college transcript. (Unofficial are acceptable)
4. Two (2) letters of recommendation:
  1. One from a faculty member who advises you on your research related to this scholarship, (or academic advisor or high school advisor if incoming freshmen).
  2. One from another faculty member or teacher, employer, or aerospace professional of your choice.
5. Signed [Certification Page](#): Download, Sign, and Scan this page for upload.

### **Questions about Undergraduate Scholarship, 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](mailto:wsgc@uwgb.edu)

## **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](mailto: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.

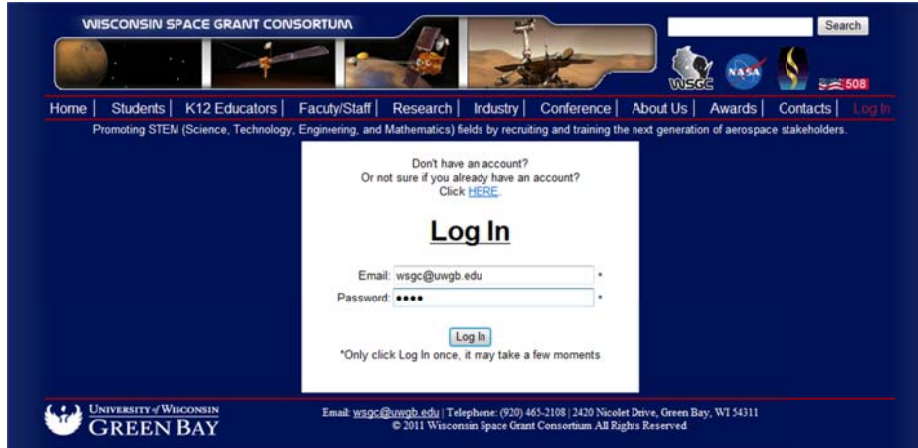
### **Contact Information:**

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](mailto:brandts@uwgb.edu)

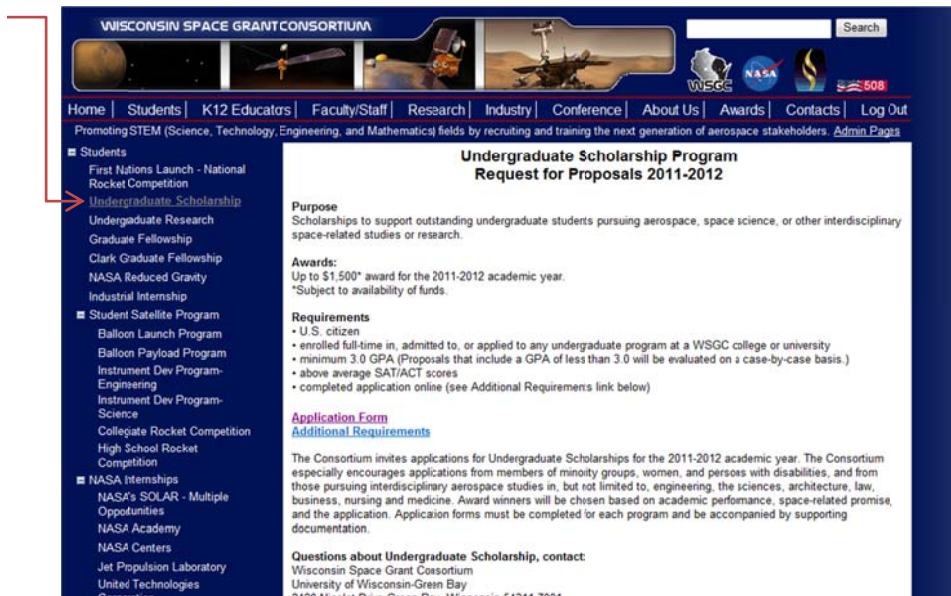
**It is important that you inform us immediately of any change in address, phone number, department, advisor, institution, etc.** If your research agenda is changed substantially, please have it approved by your advisor and the WSGC Program Office before proceeding.

# Applying to: Undergraduate Scholarship

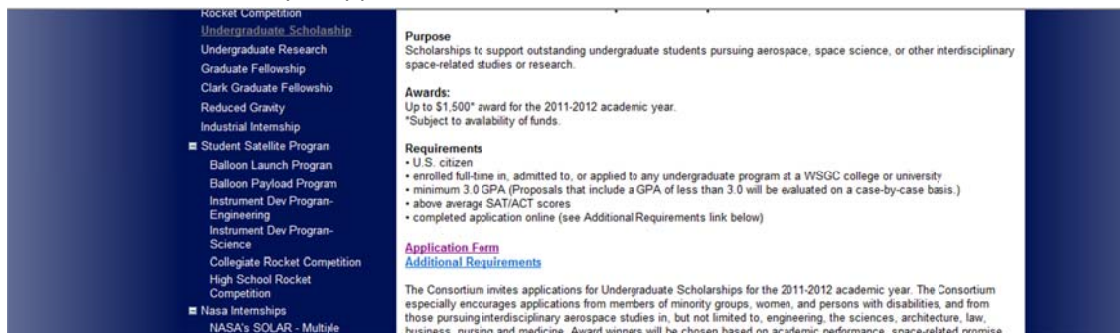
1. Login with your username and password



2. Click on the "Students" tab
  - a. Click on Undergraduate Scholarship



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



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

The screenshot shows the homepage of the Wisconsin Space Grant Consortium. At the top, there is a navigation menu with links for Home, Students, K12 Educators, Faculty/Staff, Research, Industry, Conference, About Us, Awards, Contacts, and Log Out. Below the navigation menu is a search bar and a message: "Ensure all of your information is updated and correct on your personal information page." The main form area has a "Program:" dropdown menu set to "Pic One" and a "Deadline:" field. A "Submit" button is located below the form. At the bottom of the page, there is a footer with the University of Wisconsin Green Bay logo and contact information.

- a. Select "Undergraduate Scholarship" from the drop down menu to see this:

The screenshot shows the application form for the 2011-2012 Undergraduate Scholarship. At the top, there is a navigation menu with links for Home, Students, K12 Educators, Faculty/Staff, Research, Industry, Conference, About Us, Awards, Contacts, and Log Out. Below the navigation menu is a search bar and a message: "Ensure all of your information is updated and correct on your personal information page." The main form area has a "Program:" dropdown menu set to "2011-2012 Undergraduate Scholarship" and a "Deadline:" field set to "11/30/2011". Below the form is a section titled "Additional Material Requirements" with a list of requirements and "Browse..." buttons for each. A "Submit" button is located at the bottom of the form. At the bottom of the page, there is a footer with the University of Wisconsin Green Bay logo and contact information.

- 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 an UNDERGRAD 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.

The screenshot shows the navigation menu of the Wisconsin Space Grant Consortium website. The "Account Info" link is highlighted with a red arrow pointing to it. Below the navigation menu, there is a red text box that says "You must be an UNDERGRAD to apply to this program".

## 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](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).