



National Space Grant College and Fellowship Program

National Council of Space Grant Directors *Atlanta, GA*

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Space Grant and EPSCoR Programs
Sunday, October 26, 2008

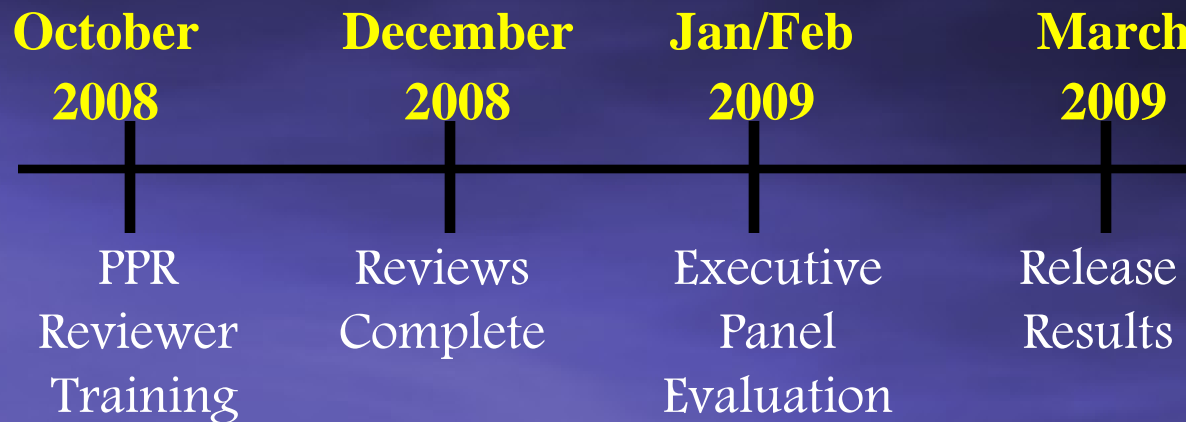


National Program Update

- 20th Year Evaluation
- NASA Education Objectives and Measures
 - Longitudinal Tracking Results for FY07
 - NASA Hiring Avenues
- NASA Future Forums
- FY09 Budget
- EPSCoR
- Announcements
- Student Satellite Survey Results



20th Year Evaluation Timeline



- ✓ Affiliate Survey
- ✓ Network Participation and Responsiveness
- ✓ Program Performance and Results Reports Submission



NASA Education Portfolio Structure



Outcomes



Objectives



Measures



Education Projects



Outcome I: Contribute to the development of the STEM workforce in disciplines needed to achieve NASA's strategic goals, through a portfolio of investments

Objectives

- Faculty and Research Support**
- Student Support**
- Student Involvement, Higher Education**
- Course Development**
- Targeted Institution Research and Academic Infrastructure**



Performance Assessment Rating Tool (PART)



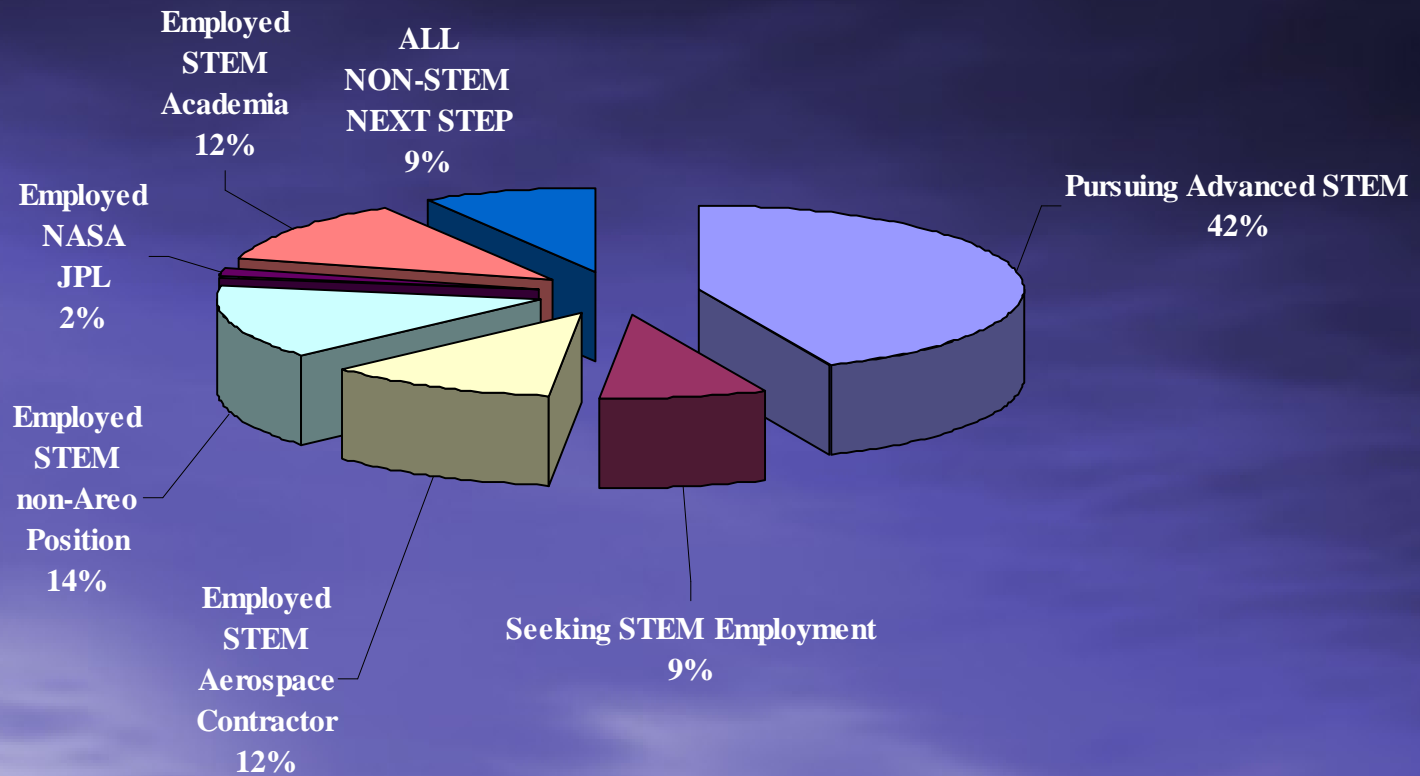
- **PART Measures – Higher Education**

- **Percentage of student participants employed by NASA, aerospace contractors, universities, & other educational institutions. (Outcome)**
- **Percentage of undergraduate students who move on to advanced education in NASA-related disciplines. (Outcome)**
- **Number of underrepresented and underserved students participating in NASA education programs. (Output)**
- **Number of new or revised courses targeted at STEM skills needed by NASA that are developed with NASA support. (Output)**
- **Number of institutions served in designated EPSCoR states. (Output)**
- *Percentage of higher education program participants who have participated in NASA elementary or secondary programs. (Output)*



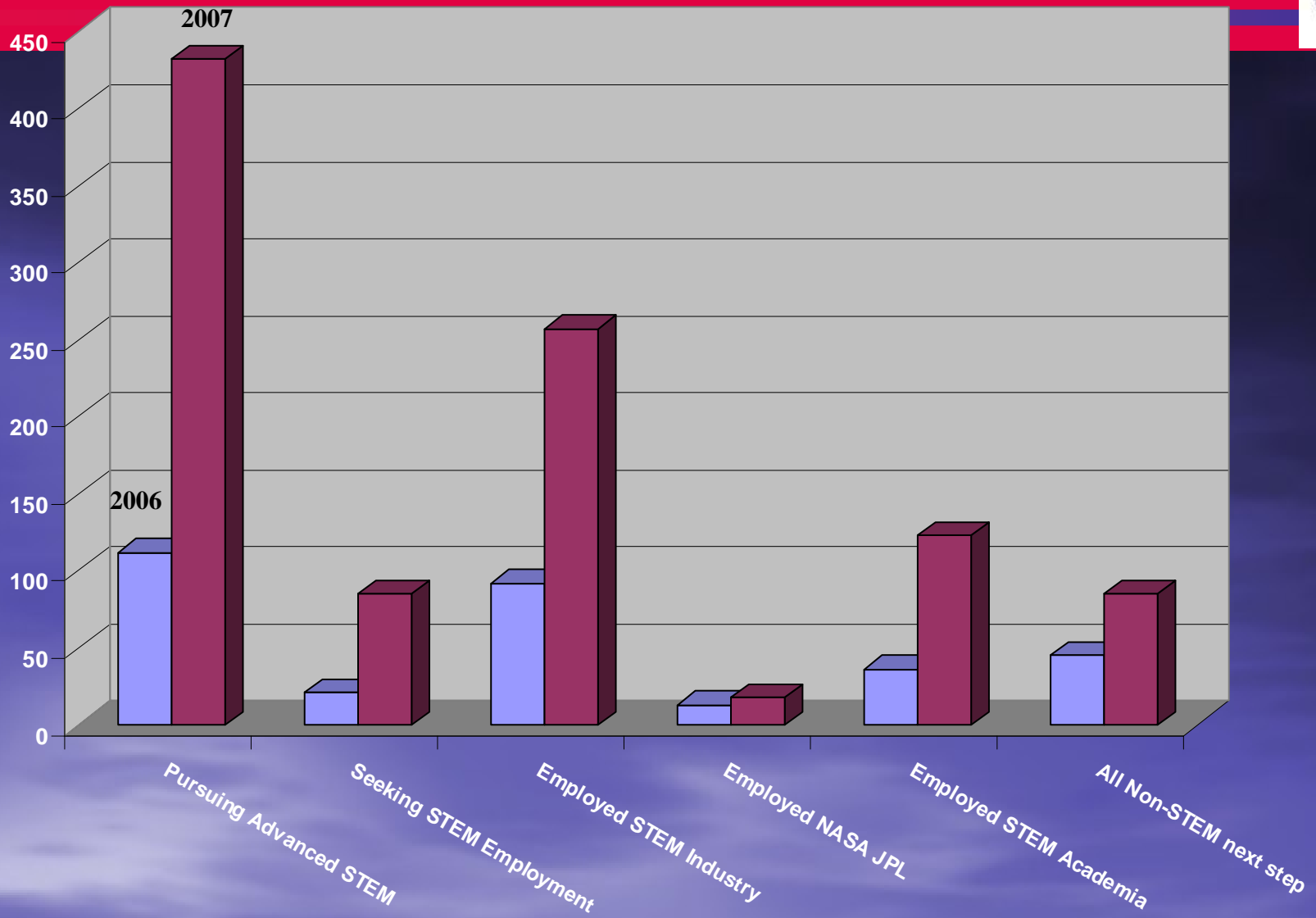
Next Step 2007

N = 1,000





Next Step by Year





NASA Hiring Avenues



- Hiring authorities to bring entry-level and “freshouts” into the NASA civil service* workforce.
 - Student Career Experience Program (co-op)
 - Federal Career Intern Program (FCIP)
 - Term Appointment
 - Permanent

* Does not include JPL



***NASA's greatest strength is its workforce —
a team that is representative of America's diversity.***

NASA-Sponsored Education Program Participants

- NA08N0002 - Professional Engineering Positions
<http://jobsearch.usajobs.gov/ftva.asp?opmcontrol=1101145>
- NA08N0003 - Physical Sciences/Biological Sciences
<http://jobsearch.usajobs.gov/ftva.asp?opmcontrol=1101137>
- NA08N0004 - Accounting and Budget/Business and Industry/Organizational Administration/Human Resources
<http://jobsearch.usajobs.gov/ftva.asp?opmcontrol=1101194>
- NA08N0005 - Computer Engineer/Computer Scientist
<http://jobsearch.usajobs.gov/ftva.asp?opmcontrol=1101254>

STEPS FOR APPLYING

1. Go to <http://www.usajobs.gov>.
2. Create a USAJobs account.
3. Build your resume.
4. Locate the vacancy announcement of interest from the URLs listed above.
5. Click on the "Apply OnLine" button.
6. Follow steps provided online.





NASA Future Forum

- Washington
- Ohio
- Missouri
- Florida
- California
- Massachusetts
- Illinois





FY 09 Budget



- Continuing Resolution until March 1
 - We will not know the final budget for Space Grant until there is a NASA Appropriation
- Timed with 20th Year Evaluation Results
- Working with NASA Comptroller



NASA EPSCoR

- 2009 Research EPSCoR CAN – mid-Nov to mid-Feb
- 2008 Research Awards – recruiting technical monitors
- 2007 Research Awards – Year-1 reports, Technical Monitor reviews, longitudinal tracking, evidence of effect in states
- Future data reporting will be done using the new NASA Education database



Announcements

- American Student Moon Orbiter (ASMO) Request For Information (RFI)
- **Ralph Steckler/Space Grant Space Colonization Research and Technology Development Opportunity**
 - New solicitation under development in conjunction with ESMD
- International Year of Astronomy – Science Mission Directorate opportunity
- **Anticipate a new ESMD solicitation for Space Grant**
- Interest in workshop on SMART goal development, measurement, and assessment?



Student-Led Flight Projects Survey 2007

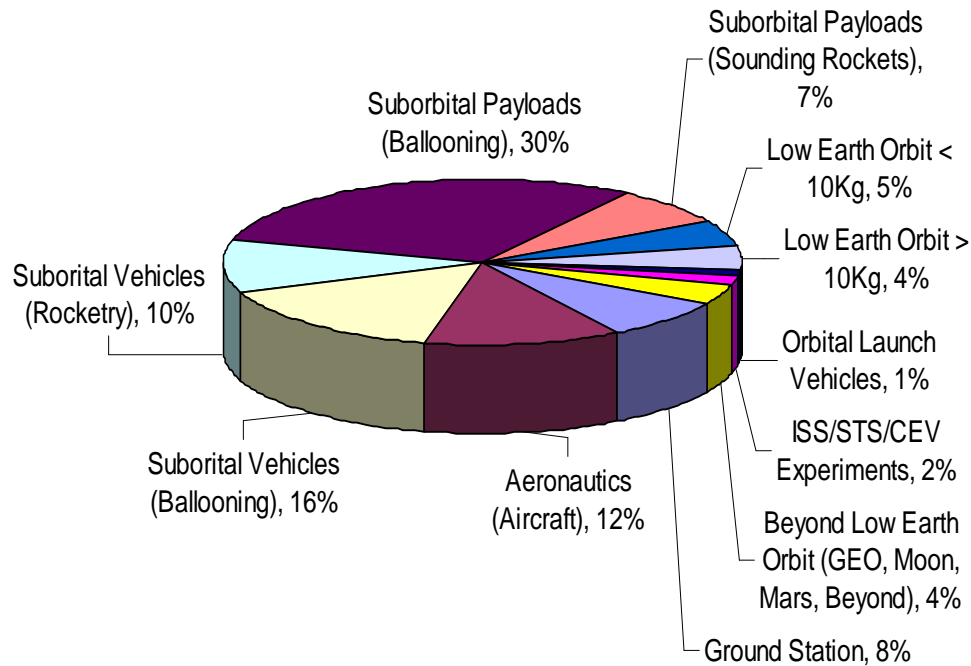
Preliminary Statistics

Survey Population = 51 Space Grant Consortia
Administered Summer 2008 via *SurveyMonkey*

- **86%** of Consortia indicated that in 2007 they were engaged in a student-led flight project (n=44)
- In 2007, there were **more than 200 student-led flight projects** involving **180+ Institutions of Higher Education** and nearly **90 Industry partners**. These projects engaged nearly **2,200 college students**, more than **275 faculty**, and **115+ precollege educators**.
- **NASA Center** involvement was cited by **64%** (n=28) of Consortia who indicated engagement in student-led flight projects.
- The **2007 NASA Space Grant investment** supporting student-led flight projects totaled approximately **\$1.7 million**. Additionally, **\$2.75 million in non-NASA Space Grant funding** was utilized to support student-led flight projects.



Student-Led Flight Projects Survey 2007



➤ 46% of the student-led flight projects involve Ballooning.

➤ Participants are predominantly undergraduate students, followed by faculty and graduate students.

➤ More than 60% of the Ballooning projects were reported as “ongoing”.

➤ The majority of the higher-order projects (Orbital launch vehicles, ISS/STS/CEV Experiments, and Beyond Low Earth Orbit) were reported as being in the design, building, and testing phases.



National Council of Space Grant Directors

Consortium Coordination

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Space Grant and EPSCoR Programs
Sunday, October 26, 2008



New Database



“Next Generation CMIS”

Education Performance Measurement Systems (EPM)

- **Purpose:** *Provide single data collection and reporting system that will help NASA improve data collection and assessment [and Program/Project Management]*

3 TIER Approach

PART

**Office of Education
Strategic Goals**

Project-Specific



New Database



Next Generation CMIS

- **Functionality/Capability**
 - More streamlined Forms (*collecting less w/more effective results*)
 - Upload capability
 - Report Building
 - Automated Reports
 - Interactive (charts/graphs)
 - Ad hoc (*more user-friendly tool – “Jasper”*)
 - Privileges/Access
 - Lead Institution
- **EPM ~ “Go Live”**
 - *October 31, 2008* (Office of Education)
 - *Early Calendar 2009* (Next Generation CMIS access)
- **EPSCoR**
 - Reporting capability within new system