“It is difficult to say what is impossible, for the dream of yesterday is the hope of today and the reality of tomorrow.”

Dr. Robert H. Goddard
1882 - 1945

Ms. Mablelene Burrell
Office of Education,
Higher Education and University Programs,
Center Lead
2012 National Space Grant Directors Meeting
Seattle, Washington
## The Goddard Space Flight Center 2012 Internships (Greenbelt, GISS, IV&V and WFF)

<table>
<thead>
<tr>
<th></th>
<th>Spring 2012</th>
<th>Summer 2012</th>
<th>Fall 2012</th>
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<tbody>
<tr>
<td># Interns:</td>
<td>6</td>
<td>407</td>
<td>10</td>
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<tr>
<td># OSSI:SOLAR:</td>
<td>6</td>
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<td>10</td>
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<tr>
<td># SG Funded:</td>
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<td># Mentor Funded:</td>
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<td># Other Funded:</td>
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Summer 2012 Intern Activities

Intern Orientation

The next generation of scientists and engineers…
Summer 2012 Intern Activities

Poster Session with Competitive Awards
Poster Session with Competitive Awards

- 8 Awards sponsored by 2 GSFC contractors
- 3 Science; 3 Engineering; 1 Computer Science/IT; 1 GSFC Center Services
- 3 Funded by Space Grant--AR, MN, PR
Summer 2012 Intern Activities

Career Networking Session
Summer 2012 Intern Activities

2012 John Mather Nobel Scholars
2012 John Mather Nobel Scholars

- 11 Students Selected
- 2 Space Grant Funded
- 9 States Represented

CA, DC, IA, IL, MA, MN, NY, OK, WI
Applied Engineering and Technology Directorate Hands-on Engineering Design Team Program

• Program Structure
  – 10 week multi-disciplinary engineering summer intern experience
  – Comprised of 4-5 students from graduate, undergraduate and high school level
  – Managed by lead mentor and several co-mentors from different engineering disciplines
  – Work pertains to NASA lines of business and help meet workforce goals of the directorate
  – Final presentation of work made to directorate high level management

• Program Benefits
  – Opportunity to gain experience in collaborative engineering
  – Encouragement to take on leadership roles within the team
  – Chance to work on real NASA engineering problems identified by the engineering directorate
  – Experience many engineering disciplines over one summer to better understand where strengths and interests lie
  – Focus on future AETD hiring opportunities

• Program Past Experience
  – Piloted in the summer of 2012 with great success
  – The team completed the subsystem design of a space craft that could be used to deorbit space debris
  – Interns had a strong encouragement to take on leadership roles, interact with other interns, and see all of what Goddard has to offer
  – All team members presented their summer project at their respective schools and universities

• How Students Can Apply
  – Students will apply for this unique summer experience through OSSI:SOLAR
  – Specific opportunities will be posted in OSSI:SOLAR for Engineering Design Team programs

• Funding Source
  – We hope Space Grant will support eligible interns from their states
SENIOR INTERNSHIP OPPORTUNITY

- Piloting for returning undergrad or grad students
- Interns have completed a previous internship at NASA GSFC as a college student
- Summer segment and academic-year segment with academic and GSFC mentor
- Designed for intern to complete project during academic year
- Placements are competed
- 2012 pilot had 8 students – 3 supported by Space Grants (NE, VW and PR)
- Expect 8 in 2013; full-cohort of 15 in 2014
Interesting Observations

- OSSI:SOLAR standardization “one stop shop” has resulted in an increase in student applications.

- Student interest in Spring and Fall Internships has also increased (based on # of applicants)

- Two out of the 10 Fall interns at GSFC are receiving credit from their college or university

- Might Space Grant Institutions advocate NASA interns receiving credit for Spring and Fall internships at a NASA Center?