NASA Langley Research Center
Strategic Relationships Office (SRO)
Office of Education
Higher Education Programs

September 10, 2011
8:00 AM
NASA Langley at a Glance

Founded in 1917
1st civil aeronautical research lab
~$800M Budget (incl Recovery Funding)
~$750M NASA Langley budget
~$50M External business
~3,700 Workforce
~1,900 Civil Servants
~1,800 Contractors (on/near-site)
(∼250 students)

Infrastructure/Facilities
788 acres, 205 Buildings
$3.3B replacement value

Langley’s Economic Impact (2008)
National economic output of ~ $2.2B and generates over 18,200 high-tech jobs
Virginia economic output of ~ $1.1B and generates over 9,600 high-tech jobs

Cross-Agency Support
- Center Management & Operations
- Construction of Facilities/Environmental Compliance
- Agency Management & Operations

Aeronautics-49%
Exploration-24%
Science-23%
Space Operations-2%
Education-2%
NASA Langley Core Competencies

Aerosciences
Research for Flight in All Atmospheres
(Includes Entry, Descent & Landing)

Characterization of all Atmospheres
(Agency = Lasers & LIDAR)

Aerospace Systems Analysis

Aerospace Structural and Material Concepts
Langley Aerospace Research Summer Scholars (LARSS)

Debbie Murray, Program Coordinator

2011 Summer LARSS Program - 184 Interns
Langley Aerospace Research Summer Scholars (LARSS) Program

- Managed by Virginia Space Grant Consortium under a sub-award from National Institute of Aerospace.
- Year-round, spring, summer and fall sessions.
- Encourage high caliber college students to pursue and earn graduate degrees.
- Enhance their interest in aerospace research by exposing them to the professional research resources and facilities of LaRC.
- Continue to feed the NASA pipeline and the Nation’s STEM skills base with highly qualified undergraduate and graduate students.

Summer 2011 – 184 participants breaking yet another record.

Sheila Roman,
Sponsored by PRSG
Langley Aerospace Research Summer Scholars (LARSS) Program

Session Events

- Lecture Series
- Lab and Facility Tours
- Site Visits
- Networking Opportunities
- Poster Session
- Recognition Ceremony
- Office Presentations
- Research Papers

- Flight Suit Pictures
- Graduate Student Seminar
- Motivational Speakers
- Possible Videotaping of Students for Promotional Purposes
Langley Aerospace Research Summer Scholars (LARSS) Program
Langley Aerospace Research Summer Scholars (LARSS) Program

Eligibility Requirements:

- US Citizenship
- 3.0 out of 4.0 GPA
- Rising college junior and above
- Primarily STEM; Special Project Areas
  (i.e. Business, Education, History, Art, Photography)

Bridge Option for rising high school seniors through rising college sophomores
(3.5 GPA and Previous NASA program experience)

Blaine Martinez,
Sponsored by NMSG
Langley Aerospace Research Summer Scholars (LARSS) Program

Summer 2011: 40 sponsored students out of 184

Funding Options:

- NASA Researchers
- NASA Space Grants
- NASA Contractors
- Universities

Note, if a university has funds to cover a student’s stipend, that student could be considered for a sponsored position with LARSS pending identification of a NASA mentor.
Langley Aerospace Research Summer Scholars (LARSS) Program

- 2011 LARSS Summer
  - Summer application is now closed
  - Summer Deadline – Feb. 1
  - Fall Info Coming Soon
  - Summer Dates: June 6-Aug. 12, 2011

- Please encourage your students to apply

- Note that the LARSS Program is not included in the SOLAR One Stop Shop Initiative.

Bethany Potter, Sponsored by ROME, Jacobs Technology
Langley Aerospace Research Summer Scholars (LARSS) Program

Contact Information:

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LARSS Web Site:
http://www.nianet.org/larss

Brice Collamer, Sponsored by VSGC

Jean Paul Duperval, II, Sponsored by NYSG
NASA
USRP, ACCESS, & MUST Programs

Kathy Powell, Program Coordinator

- USRP
- ACCESS
- MUST
NASA Undergraduate Student Research Program (USRP)

- NASA Langley offers a 10-week summer and a 15-week fall program
- The summer program is in conjunction with LARSS program dates

**Eligibility Requirements:**
- Rising sophomore, junior, or senior
- U.S. citizen
- GPA of 3.0 on a 4.0 scale
- Enrolled full-time in an accredited US College or University; Enrolled in Engineering, Math, CS, Physical/Life Science related program
NASA ACCESS Program

- ACCESS = Achieving Competence in Computing, Engineering, and Space Science

- The goal of ACCESS is to provide a career path for highly motivated students with disabilities who can make a substantial contribution to American leadership

- Eligibility Requirements:
  - 10-weeks at LaRC
  - US Citizenship
  - GPA of 3.0 or higher
  - Discipline is Math, CS or Engineering
  - Disability
NASA MUST Program

- MUST = Motivating Undergraduates in Science and Technology

- The MUST program aims to encourage minority undergraduate students to enter science and technology fields of study, with the goal of beefing up America's science, mathematics, engineering and technology workforce.

- The MUST program offers one-year, competitive scholarships to underrepresented or minority freshmen, sophomores, juniors and transfer students. The scholarship will provide up to half of tuition and fees, not to exceed $10,000 per academic year. It also provides a stipend to participate in an internship at a NASA facility.
MUST Eligibility Requirements

- Must be a US Citizen from an underrepresented group (Women, African American, Hispanic American, Native American, and persons with disabilities)
- Must reside in the U.S. or Puerto Rico
- Must be enrolled at an accredited college or university in the U.S. or Puerto Rico
- Be a rising freshman, sophomore, junior or transfer student attending or enrolling in an accredited U.S. higher education institution as a full-time student
- Must have a cumulative Grade Point Average of no less than 3.0 on a 4.0 scale
- Must be pursuing a degree in science, technology, engineering or mathematics
Contact for
USRP, ACCESS, MUST, & AERO

Kathy Powell
Program Coordinator
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- USRP Web Site:
  http://education.nasa.gov.usrp
- ACCESS Web Site:
  http://ehrweb.aaas.org/entrypoint/
- MUST Web Site:
  http://www.nasa.gov/education/must
Applying to USRP, ACCESS, and Must

- Read the details on the USRP, ACCESS, and MUST web sites:
  - USRP Web Site: http://education.nasa.gov/usrp
  - ACCESS Web Site: http://ehrweb.aaas.org/entrypoint/
  - MUST Web Site: http://www.nasa.gov/education/must

- Apply on-line at the Student On-Line Application for Recruiting Interns, Fellows, and Scholars (SOLAR)
  - SOLAR Web Site: http://www.intern.nasa.gov
Graduate Student Researchers Program (GSRP)

Dr. Thomas Pinelli, University Affairs Officer
Sandra L. Myers, M.Ed., GSRP Program Manager
What is the NASA GSRP?

- Initiated in 1980 as an agency-wide 12-month awards fellowship for graduate study leading to masters or doctoral degrees
- Supports approximately 175 awards annually
- Research Driven
- Students are required to participate in a 10-Week research experience at the NASA Center
- Degreed fields are science, mathematics, engineering, and education related to NASA research and development
- GSRP awards are based upon funding and research relevant to the Agency’s development requirements
- Renewable for one year for Master’s Degree
- Renewable for two years for Ph.D. Degree

Dr. Patricia McDaniel, GSRP 2007 Orientation Speaker and GSRP/NPP Alumna
NASA GSRP Goals

- To cultivate research ties to the academic community
- To help meet the continuing needs of the Nation’s aeronautics & space requirements
- To significantly increase the number of highly trained scientists and engineers in aeronautics and space-related disciplines
- To broaden the base of students pursuing advanced degrees in science, mathematics & engineering
- To support cultural diversity
GSRP Eligibility

- Must be a U.S. Citizen
- Full-time graduate student or accepted into graduate school
- May apply at any time during graduate program, or prior to receiving baccalaureate degree providing acceptance to an accredited graduate program at a U.S. college/university
- GPA 3.0 or higher
- Not receiving other Federal funding, fellowships or traineeships
GSRP Funding

- Student Stipend - $20,000
- Travel Allowance - $6,000
- Health Insurance - $1,000
- University Allowance $3,000 (discretionary award to the university)
- Total = $30,000 per year
NASA Research Opportunities

- Aeronautical Engineering
- Mechanical Engineering
- Electrical Engineering
- Materials Science
- Computer Science
- Atmospheric Science
- Astrophysics
- Education
- Physics
- Chemistry
- Aerospace-Related Disciplines
OK, Where Do I Start?

- Read about the GSRP on the web site: [http://fellowships.hq.nasa.gov/gsrp/nav/](http://fellowships.hq.nasa.gov/gsrp/nav/)

- Apply on-line at the Student On-Line Application for Recruiting (SOLAR) Interns, Fellows, and Scholars

- SOLAR Web Site: [http://www.intern.nasa.gov](http://www.intern.nasa.gov)

Do your homework - Take responsibility
Benefits of SOLAR

- Ability for students to search and apply for all types of NASA internship, fellowship, and scholarship opportunities in one system.

- A single internship or fellowship application places students in the applicant pool for consideration by all NASA mentors.

- Ability for mentors to search the applicant pool for the most highly qualified students.

- Ability for mentors to receive application information for students that have identified the mentor’s opportunity as one of their top 15 of interest per session.
Contact Information

GSRP Web Site:
http://fellowships.hq.nasa.gov/gsrp/nav/

DEADLINE: Applications Due, March 1, 2011

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Questions & Answers