

**Carnegie Mellon NASA Summer Research Program  
June 7 - August 2, 2008**

**Program Description**

This program is designed to introduce undergraduate students majoring in engineering, math and science to research opportunities in space-related sciences, both theoretical and experimental. Applications from women and minorities are especially encouraged.

Participants in the program receive research experience and mentoring from CMU research faculty, a stipend of \$3,150, and housing in a CMU dormitory. To complete the program, participants must submit a written report on their research project. The program must be completed to receive the total amount of the stipend.

Applicants may choose from three space-related research projects. Please review the project descriptions below to see if one fits with your interests and/or any related coursework you have completed.

**Application Deadline is Friday, February 15, 2008**

**1. “Telesupervised Adaptive Ocean Sensor Fleet”**

Principal Investigator, Senior Systems Scientist John M. Dolan,  
Vision & Autonomous Systems Center (VASC), Robotics Institute

Desirable skills in an applicant include familiarity with C/C++ programming, the Linux OS, GUI development, and web-based network communications. Ability to plan and execute computer programs for simple GUI, data storage, and communications tasks.

Level of independent work expected: Weekly or more frequent meetings with PI and fellow lab members to guide progress.

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**2. “Wetting of Hydrogels by Surfactant Solutions”**

Principal Investigator, Professor Stephen Garoff  
Department of Physics and the Center for Complex Fluids Engineering

Successful candidates will have done coursework in at least college-level introductory chemistry.

Level of independent work expected: Should be able to carry out work independently, knowing when to ask questions of fellow team members. Weekly or more frequent meetings with PI and fellow lab members to guide progress.

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**3. “Google Lunar X Prize”**

Principal Investigator, Associate Research Professor David Wettergreen  
Robotics Institute, the Space Robotics Initiative, and The Field Robotics Center

Successful candidates will have mechanical engineering (shop) skills with fabrication experience.

Level of independent work expected: Limited supervision with tasks defined at the outset of the program. Ability to work very independently.

**Application Process**

The program is intended primarily for undergraduates who are in their junior year at the time of application. However, all undergraduates currently enrolled in a U.S. college or university are eligible. **Applicants must be U.S. Citizens or holders of a Green Card** indicating their intention to become a citizen.

**The deadline for receipt of all materials relating to your application is February 15, 2008.**

**Awards will be announced after February 29, 2008.** Selected applicants will be notified by telephone.

**To apply, you must print out the application at the link below, fill it out, and mail it to:**

Office of Graduate Education  
Carnegie Mellon University  
Warner Hall, Room 530B  
5000 Forbes Avenue  
Pittsburgh, PA 15213

***Remember to be clear about deadline dates with those who are writing reference letters for you.***

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Nancy Klancher  
Director, Graduate Programs Office  
Carnegie Mellon University  
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Pittsburgh, PA 15213  
412-268-7970  
412-268-6159 (fax)