

National Institute of Standards and Technology (NIST) Submission for 2013 DHS Summer Internship Program

1. Facility Description

NIST has been hosting undergraduate students for the DHS Summer Internship Program since 2005. A total of 42 students have been hosted, with seven students participating at NIST this past summer (2012), at NIST-Gaithersburg and NIST-Boulder.

In addition, NIST has been hosting summer students through the NIST Summer Undergraduate Research Fellowship (SURF) Program since 1983; therefore, NIST has a history of successful experience with summer students.

The National Institute of Standards and Technology (NIST) is the national metrology institute for the U.S., and is part of the Department of Commerce's Technology Administration. NIST has unique measurement and research facilities to develop and promote measurements, standards and technology, with the primary goals to enhance productivity, facilitate trade, and improve the quality of life. NIST's staff of 3000 includes a technical staff of 1500 at two primary campuses in Gaithersburg, Maryland, and Boulder, Colorado, and at several joint institutes with universities. Unique facilities include the Advanced Measurement Laboratory, Advanced Chemical Sciences Laboratory and the NIST Center for Neutron Research.

As a non-regulatory federal agency founded in 1901, NIST's mission is to promote U.S. innovation and industrial competitiveness by advancing measurement science, standards, and technology in ways that enhance economic security and improve quality of life. NIST's particular role in homeland security is to provide measurements, standards, and expert guidance needed to support the Nation's homeland security needs. NIST measurements and standards support current activities and potential future advances in key homeland security areas including chemical, biological, radiological, nuclear, explosive (CBRNE) threat detection and remediation; safety of structures and occupants; safety and effectiveness of emergency responders; transportation system safety; information security and Critical Infrastructure Protection; and biometric identification.

Additional information about NIST and its programs can be found at

NIST in general: http://www.nist.gov/public_affairs/nandyou.cfm

and <http://www.nist.gov/programs-projects.cfm>

Homeland Security at NIST: <http://www.nist.gov/homeland-security-portal.cfm>

SURF Program at NIST: <http://www.nist.gov/surfgaithersburg/>

and <http://www.nist.gov/surfboulder/index.cfm>

2. Additional Information

Housing is arranged by the student, assisted through information furnished by the International and Academic Affairs Office at NIST. The list of available housing in the area includes a range of options from single rooms to apartments. Additional housing possibilities may also be furnished through the student's NIST mentor.

It is strongly recommended that the students begin their NIST Internship on May 28, 2013. This start date coincides with the estimated start date of the NIST SURF program, and will

provide students with opportunities to take advantage of the range of activities that the SURF program offers for the students. Students should attend the general NIST orientation that is held on May 28, 2013 to begin their internship. In the event that the student is not able to start on May 28th, the student should contact Ms. Danni Dressel at the International and Academic Affairs Office at NIST to discuss another approved start date. *Please note that May 28th is an estimated start date which coincides with the start date of another NIST summer program and this date is subject to change.*

Students are welcome to join the scheduled SURF activities throughout the summer, which include seminars, weekly socials, tours, and other networking opportunities. There are additional possibilities for lectures and seminars at NIST which the students can elect to take advantage, and the DHS Summer students would also be welcome to attend the NIST-wide seminars that are held regularly during the summer.

A Security Clearance is required for summer students, as they will be official guest researchers at NIST. As soon as a student's selection as DHS Summer Intern is confirmed, the student should be receiving forms to complete and return, which will facilitate his/her arrival and start of the internship.

3. Point of Contact

The primary point of contact at NIST for the DHS Summer Internship Program is

Ms. Danni Dressel
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