



University of the District of Columbia Homeland Security – STEM Summer Student Research Assistantships Summer 2016 Application

Homeland Security Science and Technology Summer Student Research Assistantship Six Week Internship: **June 6, 2016– July 15, 2016.**

Application Deadline: March 14, 2016

Stipend: \$3,000

Students will work in interdisciplinary research teams with a faculty mentor in a homeland security science and technology project in the social and behavioral sciences priority research areas (See listing of Department of Homeland Security Science and Technology priority research area at the end of this information package).

Minimum Qualifications:

1. U.S. Citizenship
2. 2.5 GPA
3. Currently majoring in an undergraduate STEM (Science, Technology, Engineering, & Math) program.
 - Agriculture
 - Biology
 - Bio Chemistry
 - Chemistry
 - Computer Science
 - Criminal Justice
 - Demography
 - Economics
 - Environmental Studies
 - Epidemiology
 - Linguistics
 - Mathematics
 - Political Science
 - Psychology
 - Sociology
 - Social Science
 - Veterinary Services
4. Returning to school Fall 2016.
5. A commitment to refrain from working at other sites during the summer research timeframe if selected.

This opportunity is open to all currently enrolled college students who will continue their college enrollment in the Fall of 2016.

**Applicants do not have to be UDC students,
But you must be enrolled in an accredited college or university.**

Important note: Student Summer Research Assistants are responsible for their own housing

To Submit an Application please click: [Application Submission](#)

Unofficial Transcripts should be emailed to Cotina Lane Pixley at Clane@udc.edu

Application process may include:

1. An interview with the Committee
2. An interview with the Research Team Leader.

FOR FULLEST CONSIDERATION APPLICATIONS MUST BE RECEIVED BY THE MARCH 14, 2016 DEADLINE.

Submission Information

1. Application materials should be emailed to: Mrs. Cotina Lane Pixley at clane@udc.edu with the subject line enter: HS-SSRA 2016.
2. If you do not receive a confirmation response within 48 hours, contact Mrs. Lane Pixley to assure receipt of your materials.

For additional information: Mrs. Cotina Lane Pixley
clane@udc.edu
202-274-7462

Priority Research Areas	Description
Advanced Data Analysis and Visualization	Information extraction, knowledge management, and visualization of large quantities of data to enhance data fusion, situational awareness, and threat detection.
Biological Threats & Countermeasures	Assessment, characterization and prioritization of chemical-biological threats; detection and warning systems; agro-defense and food security; biological countermeasures; and decontamination, restoration and medical response to biological threat events.
Border Security	Technologies to monitor and inspect cargo that cross our land, maritime borders and ports of entry; tools to monitor people who cross our land, maritime borders and ports of entry; evaluation of the policies and procedures designed to secure the border while welcoming legitimate visitors and trade.
Chemical Threats and Countermeasures	Assessment, characterization and prioritization of chemical-biological threats; detection and warning systems; agro-defense and food security; chemical countermeasures; and decontamination, restoration and response to chemical threat events.
Communications and Interoperability	Interoperable communication for emergency responders; cyber security.
Community, Commerce and Infrastructure Resilience	Multidisciplinary research to develop approaches to improve community resilience across the United States, improving community resilience and determining ways where public investments can foster resilient communities.
Emergency Preparedness and Response	Decision support tools to aid in the preparation or response to catastrophic events; studies of public risk communication; medicine and public health; business technology for first-responders.
Explosives Detection, Mitigation and Response	The detection, mitigation, and response to explosives in a wide variety of contexts.
Food and Agriculture Security	Assessment, characterization and prioritization of chemical-biological threats; detection and warning systems; agro-defense and food security; biological or chemical countermeasures; and decontamination, restoration and medical response to biological or chemical threat events.
Human Factors	Integration of human factors concerns into homeland security technologies to improve utility and operator safety; assessments of public acceptance of homeland security technologies; use of technology to discern critical aspects of human behavior.

Immigration Studies	Studies of the integration of new immigrants into U.S. society and the consequences of successful/failed assimilation.
Infrastructure Protection	Assessment of relative threats and vulnerabilities of critical infrastructure; estimation of consequences of natural disasters or terrorist attacks to critical infrastructure; application of engineering technologies or tools to enhance DHS' ability to prepare, predict, and minimize or prevent damage to critical infrastructure from natural hazards.
Maritime and Port Security	Technologies and tools to secure national maritime borders and U.S. maritime interests, support global maritime awareness, defend maritime commerce and global supply chains, minimize damage and expedite recovery from attacks or catastrophic events impacting maritime interests, and protect coastal population centers.
Natural Disasters and Related Geophysical Studies	Assessment of relative threats and vulnerabilities of critical infrastructure; estimation of consequences of natural disasters or terrorist attacks to critical infrastructure; application of engineering technologies or tools to enhance DHS' ability to prepare, predict, and minimize or prevent damage to critical infrastructure from natural hazards.
Risk, Economics, and Decision Sciences	Applications of advanced methods and techniques to support decision making; quantitative analysis.
Social and Behavioral Sciences	Social and behavioral analyses of terrorist threats; community preparedness, response and recovery from catastrophic events; economic assessments of terrorism and catastrophic events; and economic and mathematical decision models of terrorist behavior.
Transportation Security	Applications of advanced methods and techniques to support decision making; quantitative analysis; improving the Nation's preparedness in the event of a high consequence natural or man-made disaster, and developing best practices to alleviate the event's effects.