



Homeland Security

Science and Technology



HOMELAND SECURITY UNIVERSITY PROGRAMS
TODAY'S RESEARCH & EDUCATION, TOMORROW'S SECURITY

DHS Centers of Excellence

Office of University Programs, Science and Technology Directorate, U.S. Department of Homeland Security

The Center for Risk & Economic Analysis of Terrorism Events (CREATE), led by the University of Southern California, evaluates the risks, costs, and consequences of terrorism, and guides economically viable investments in countermeasures that will make our Nation safer and more secure. www.usc.edu/create



National Center for Food Protection & Defense (NCFPD), led by the University of Minnesota, defends the safety of the post-harvest food system by establishing best practices, developing new tools, and attracting new researchers to manage and respond to food contamination events. www.ncfpd.umn.edu

NATIONAL CENTER FOR
FOOD PROTECTION AND DEFENSE
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Discrete Science Centers are led by Rutgers University (Lead Center), the University of Southern California, the University of Illinois at Urbana-Champaign, and the University of Pittsburgh. They collaborate with the Institute for Discrete Sciences (IDS), based at Lawrence Livermore National Laboratory, to conduct research on advanced methods for information analysis and the development of computational technologies to protect the Nation. www.dydan.rutgers.edu



The National Center for Foreign Animal and Zoonotic Disease Defense (FAZD), led by Texas A&M University, protects against the introduction of high-consequence foreign animal and zoonotic diseases into the United States, with an emphasis on prevention, surveillance, intervention, and recovery. <http://fazd.tamu.edu>

FAZD CENTER

Center for Advancing Microbial Risk Assessment (CAMRA), led by Michigan State University and established jointly with the U.S. Environment Protection Agency, fills gaps in risk assessments for decontaminating microbiological threats, such as the plague and anthrax—answering the question, “How Clean is Safe?” www.camra.msu.edu



The Center for Border Security and Immigration, led by the University of Arizona and the University of Texas at El Paso, will develop technologies, tools, and advanced methods to balance immigration and commerce with effective border security, as well as assess threats and vulnerabilities, improve surveillance and screening, analyze immigration trends, and enhance policy and law enforcement efforts.

Natural Disasters, Coastal Infrastructure and Emergency Management (NDCIEM), led by the University of North Carolina at Chapel Hill and Jackson State University in Jackson, MS, will enhance the Nation's ability to safeguard populations, properties, and economies against the consequences of catastrophic natural hazards of coastal regions.

Regional Visualization and Analytics Centers (RVACs) are led by Penn State University, Purdue University, Stanford University, the University of North Carolina at Charlotte, and the University of Washington. They collaborate with the National Visualization and Analytics Center, based at Pacific Northwest National Laboratory, to conduct research on visually based analytic techniques that help people gain insight from complex conflicting and changing information. <http://nvac.pnl.gov/centers.stm>



RVAC
Regional Visualization
and Analytics Centers

The National Center for Island, Maritime and Extreme Environment Security (CIMES), led by the University of Hawaii in Honolulu for maritime and island security, and **the National Center for Secure and Resilient Maritime Commerce (CSR)**, led by Stevens Institute of Technology will develop technologies and tools that will strengthen maritime domain awareness and safeguard populations and properties unique to U.S. islands, ports, and remote and extreme environments.



Center of Excellence for Awareness & Location of Explosives-Related Threats (ALERT), led by Northeastern University and the University of Rhode Island, conduct research and develop technologies, tools, and advanced methods for the detection, interdiction, and mitigation of the effect of explosives used by terrorists. www.neu.edu/alert



The National Consortium for the Study of Terrorism and Responses to Terrorism (START), led by the University of Maryland, informs decisions on how to disrupt terrorists and terrorist groups while strengthening the resilience of U.S. citizens to terrorist attacks. www.start.umd.edu



National Transportation Security Center of Excellence (NTSCOE) has 3 major components: Research, Education & Training, and Petro-Chemical Transportation. The NTSCOE for Research is led by the University of Connecticut and includes the Mack-Blackwell Rural Transportation Center at the University of Arkansas and the Mineta Transportation Institute (MTI) at San Jose State University. The NTSCOE for Education & Training is led by Tougaloo College in Tougaloo, MS and includes the National Transit Institute at Rutgers University and the Homeland Security Management Institute at Long Island University. The NTSCOE- for Petro Chemical is led by Texas Southern University in Houston, TX. All 7 institutions for the NTSCOE will develop new technologies, tools, and advanced methods to defend, protect, and increase the resilience of the Nation's multimodal transportation infrastructure.

The National Center for the Study of Preparedness and Catastrophic Event Response (PACER), led by Johns Hopkins University, optimizes our Nation's preparedness in the event of a high-consequence natural or man-made disaster, as well as develops guidelines to best alleviate the effects of such an event. www.pacercenter.org



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