



### DHS S&T Centers of Excellence Network

Current COEs include:

- Arctic Domain Awareness Center (ADAC)**, led by the University of Alaska at Anchorage
- Center for Borders, Trade, and Immigration Research (CBTIR)**, led by the University of Houston
- The Center for Visualization and Data Analytics (CVADA)**, co-led by Purdue University and Rutgers University
- Center of Excellence for Awareness & Localization of Explosives-Related Threats (ALERT)**, led by Northeastern University
- Center of Excellence for Zoonotic and Animal Disease Defense (ZADD)**, co-led by Texas A&M University and Kansas State University
- Coastal Resilience Center of Excellence (CRC)**, led by the University of North Carolina at Chapel Hill
- Critical Infrastructure Resilience Institute (CIRI)**, led by the University of Illinois at Urbana-Champaign
- Food Protection and Defense Institute (FPDI)**, led by the University of Minnesota
- Maritime Security Center (MSC)**, led by Stevens Institute of Technology
- National Center for Risk and Economic Analysis of Terrorism Events (CREATE)**, led by the University of Southern California
- National Consortium for the Study of Terrorism and Responses to Terrorism (START)**, led by the University of Maryland

*"Thank you for providing a tool that enabled me to make this difficult decision; in hindsight, probably the most important decision made in our response [to Hurricane Irene]."*

~ Rear Admiral W.D. Lee  
Commander, Fifth District  
U.S. Coast Guard

\* Formerly named the National Center for Food Protection and Defense (NCFPD).

### University Partnerships Deliver Results

The Department of Homeland Security (DHS) Science and Technology Directorate (S&T) Office of University Programs (OUP) taps the expertise of the nation's colleges and universities to tackle tough homeland security problems.

Through OUP programs—the DHS S&T Centers of Excellence, Workforce and Professional Development, and Minority Serving Institutions—DHS components can access academic expertise to answer research questions, deliver technical solutions, and build a highly specialized workforce.

The **Centers of Excellence (COEs)** assist the homeland security community with specialized research, expertise, and facilities. Each COE focuses on a specific set of DHS-relevant challenges and addresses these challenges with multidisciplinary, customer-driven research and technology development. COE partners include academic institutions, industry, other DHS S&T divisions, DHS components, national laboratories, other federal agencies, state and local homeland security agencies, and first responders. These partners work in concert to develop critical technologies and analyses to secure the nation. The COEs also provide their knowledge and technology to assist in rapid response and emergency operations.

**Workforce and Professional Development Initiatives** develop the current and future homeland security science and engineering workforce, which is critical to making the homeland security community effective. OUP grants, internships, and fellowships expose students to advanced technical knowledge, training, and complex, real-world challenges. These students will become the next generation of homeland security leaders, taking positions with DHS components, national laboratories, and other agencies with homeland security missions.

The **Minority Serving Institutions (MSIs) Program** provides grants and awards to build a diverse, highly capable, technical workforce for the homeland security enterprise. Linked with the DHS COEs, these programs provide the homeland security community with a broad pool of high achieving students who bring valuable insight and understanding to complex homeland security challenges.

### Achievement through Collaboration

OUP and partners have:

- **Developed** more than 100 targeted tools, technologies, and knowledge products through COEs for use across the Homeland Security Enterprise.
- **Performed** targeted research for 11 DHS components and offices and five other Federal agencies, which have contributed over \$100 million in supplemental COE investments.
- **Attracted** more than \$330 million in additional investment from external sources for homeland security research, development, and education.



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Emeritus COEs include:

**Center for Advancing Microbial Risk Assessment (CAMRA)**, co-led by Michigan State University and Drexel University and established jointly with the U.S. Environmental Protection Agency

**Center for Maritime, Island and Remote and Extreme Environment Security (MIREES)**, co-led by the University of Hawaii and Stevens Institute of Technology

**Coastal Hazards Center of Excellence (CHC)**, co-led by the University of North Carolina and Jackson State University

**National Center for the Study of Preparedness and Catastrophic Event Response (PACER)**, led by Johns Hopkins University

**National Center for Border Security and Immigration (NCBSI)**, co-led by the University of Arizona and the University of Texas at El Paso

**National Transportation Security Center of Excellence (NTSCOE)**, co-led by the University of Connecticut, Tougaloo College, and Texas Southern University

*"I hope to continue this research at Tuskegee and possibly create novel analytical platforms for explosive detection... We're very excited for the future."*

~ **Dr. Marilyn Tourné**  
Tuskegee University

2014 Summer Research Team Participant  
Minority Serving Institutions Program

*"It was important for me to see what working at a national lab entails, and my project at Argonne was perfect for combining my career interests. I would definitely consider returning to a national lab in the future, or pursuing a career at DHS."*

~ HS-STEM Summer Intern  
Workforce Development Initiative



- **Placed** 358 students in summer internships since 2008 to conduct research in DHS mission-relevant research areas at federal research facilities located across the country.
- **Awarded** 63 Career Development Grants to universities plus 289 Fellowships and 256 Scholarships to individuals.

### Make the Connection

OUP makes it easy to tap into the intellectual power of America's universities for homeland security research, development, and education. OUP program managers provide individualized service to DHS components and assist with finding needed research and development (R&D) capabilities within OUP's network of more than 200 partner institutions.

### Vehicles to Access OUP Research and Education

OUP offers a variety of vehicles through which DHS components and other partners can access the research and expertise found at the DHS S&T COEs. Vehicles include:

- **Basic Ordering Agreements** – Through a Basic Ordering Agreement (BOA), DHS components can establish a contractual task order directly with a COE to conduct targeted R&D or education projects.
- **OUP Cooperative Agreements and Grants** – OUP has a suite of standing cooperative agreements and grants with dozens of colleges and universities. DHS components and other federal agencies can tap into these vehicles through a variety of partnership opportunities or Interagency Agreements with OUP.

### Getting Started

- Identify your university-based research and development or education requirements.
- Learn more about the COEs at [DHS S&T Centers of Excellence Virtual Showcase](#) and check out OUP's database of ongoing efforts at [Homeland Security University Programs](#).
- Contact OUP by emailing [DHS S&T University Programs](#). We will match you with the appropriate OUP program manager to meet your needs.

