what keeps you awake at night?

mitigate
prepare
respond
recover
manage
Emergency management and homeland security are becoming more complicated and demanding because of technological advancement of threats. The numbers and consequences of both natural and man-made disasters are increasing, and public- and private-sector agencies are being taken to task for failing to mitigate or prevent the effects of those disasters.

Employers are looking for management professionals who understand the political and socioeconomic nuances of disasters, as well as how to write a continuity of operations plan and maintain an emergency operations center. Management has moved from a narrowly focused occupation to a multilevel profession; as a logical progression, education has asserted itself, linking training and experience, and creating a new paradigm for the well-rounded manager.

ASU's College of Public Programs offers a bachelor of applied science degree in emergency management. In fall 2014, the College plans to introduce a new master's degree in emergency management and homeland security, as well as undergraduate certificates in security studies and in homeland security.

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cemhs@asu.edu

diverse areas of expertise
comprehensive, timely and cost-effective solutions for emergency management and homeland security

- Biological and chemical threat detection
- Communications
- Community resilience
- Critical infrastructure
- Cybersecurity and information assurance
- Deception detection
- Drug use detection
- EOC and ECC assessment, design, build, management, simulation
- Emergency response decisioning automation
- Emerging technologies
- Energy
- Environmental
- Geotechnical engineering
- Healthcare and disaster medicine
- Joint or consolidated operations
- Mass evacuation and domestic refugees
- Public policy
- Sports venues
- Surveillance technologies
- Tabletop exercises
- Training
- Weapons of mass destruction

a growing market need for trained professionals

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meeting the need for comprehensive expertise

Arizona State University’s Center for Emergency Management and Homeland Security brings together the vast knowledge and capacity available throughout the entire ASU enterprise to create innovative solutions for the mitigation, preparation, response, recovery and management of significant incidents or disasters – whether natural or man-made. Through the College of Public Programs, the Center fuses research, solution delivery and academic capabilities that address the needs of government and private sector stakeholders today, and to train the public management professionals of tomorrow.

a solutions-oriented approach

The Center focuses on solution centric offerings that are practical, affordable and meet the exact needs of government and/or industry. The Center addresses specific unanswered needs and requirements to a very simple question: What keeps you awake at night? We understand, but do not subscribe, to the “one size fits all” mentality and, additionally, we provide answers and solutions where the challenge(s) are under- or not-addressed. The Center brings the extensive resources of the university and industry partners together to proactively address homeland security and emergency management needs. Supported by university funding and commitment, the Center seeks to fill a gaping need to provide the people, tools and know-how to implement effective solutions for industry and government.

expanding existing capabilities

ASU is home to the State of Arizona Alternate Emergency Operations Center (EOC). While this state-of-the-industry EOC provides emergency personnel with the ability to coordinate response and recovery efforts for actual real world emergencies, it is also capable of running in simulation mode to prepare for potential threats and afford valuable training in advance of a real emergency. The EOC also facilitates contextual teaching and product demonstrations.
leadership team

Rick Dale, executive director

Dale has over three decades of executive and technical management, professional services and system integration in the emergency response sector.

Prior to joining ASU in 2013 to launch the Center, Dale had retired earlier in 2013 as executive chairman and chief executive officer of IXP Corporation. Dale founded IXP in 2000, building it over the next 13 years into an industry leader serving the emergency response needs of government, universities, healthcare and energy clients.

During the course of his career, Dale and his company advised and provided solutions to a wide range of clients including New York City, Houston, Portland, Town of Paradise Valley, Brown University, Harvard University, University of California - San Francisco, Johns Hopkins Medicine, Emory Hospital and Constellation Energy. He has led planning, design, implementation and maintenance of emergency response solutions—many of which were industry firsts in North America.

Dr. Richard Besserman, M.D., operations executive

Besserman has years of experience as a surgical specialist, and over 20 years as an entrepreneur and executive in bioengineering and software development.

He has in-depth experience in data management, data security and has led development of complex health and safety management and environmental systems for industrial companies and government. Besserman has a M.D. degree from New York Medical College and a M.S. degree from ASU in emergency management. Through his association with emergency response organizations, he has acquired experience with disaster mitigation, emergency response, weapons of mass destruction, terrorism, exercise development, continuity of operations and emergency operations center management. He has created courseware and taught post-graduate courses on disaster medicine, leadership development, disaster management, preparedness, and business continuity at California State University and the Ken Blanchard College of Business.

Besserman is certified in Homeland Security by ABCHS and has received specialized training in medical management of biologic, chemical and radiation injuries with the U.S. Army and the Department of Energy. He has had boots on the ground and gained important disaster response experience from 9/11, in New York City; and, as a deputy commander of a National disaster Medical System (NDMS) DMAT team formerly under the Department of Homeland Security, in New Orleans, for the Katrina hurricane. Since then, Besserman has joined an International Medical Surgical Response Team (IMSURT-West, NDMS/HHS) based in Seattle, Wash.

Kiril Hristovski, assistant professor, principal

Kiril D. Hristovski is an assistant professor within the Department of Engineering and Computing Systems, College of Technology and Innovation at Arizona State University's Polytechnic campus and serves as a liaison for international collaboration, emergency management and homeland security. He is affiliated with ASU’s Global Institute of Sustainability as a Senior Sustainability Scientist and member of the graduate faculty in the School of Sustainable Engineering and the Built Environment within the Ira A. Fulton Schools of Engineering. He is also a faculty member of the GlobalResolve program at the Polytechnic campus and a Fulbright Fellow.
In addition to his expertise in environmental applications and implications of nanotechnology and environmental challenges in the developing world, Hristovski's scholastic interests focus on the environmental engineering/homeland security nexus with emphasis on topics related to international emergency management issues. Hristovski teaches graduate and undergraduate courses in environmental engineering and management related to hazardous materials and waste, integrated solid waste, water and wastewater treatment technologies, and unit treatment technologies.

Hristovski holds a Ph.D. in civil and environmental engineering and an M.S. in technology with an emphasis on environmental technology and emergency management from Arizona State University. He also holds a B.S. degree in chemical engineering from the University of Sts. Cyril and Methody in Skopje, Republic of Macedonia.

Troy McDaniel, assistant research professor, principal

Troy McDaniel is a research assistant professor within the School of Biological and Health Systems Engineering at Arizona State University, an assistant research professor within ASU’s School of Computing, Informatics, and Decision Systems Engineering, associate director of ASU’s Center for Cognitive Ubiquitous Computing, research director of ASU’s IGERT project – Alliance for Person-centered Accessible Technologies, and a principal in the Center for Emergency Management and Homeland Security. McDaniel's expertise spans several areas including human factors, assistive technologies, rehabilitative technologies, haptic and human-computer interaction. He teaches a graduate course on the human-centered design of assistive and adaptive technology for people with disabilities.

McDaniel is particularly interested in advanced tactile display designs, haptic languages and affective haptics. Specific application areas of focus include social assistive aids for individuals who are blind or visually impaired; wearable computers and serious games for neurorehabilitation; and technologies and methods for promoting health, exercise and wellness.

McDaniel holds a B.S. and Ph.D. in computer science from Arizona State University.

Dr. Danny Peterson, operations executive

Peterson is a professor of practice within the School of Public Affairs, part of the College of Public Programs at ASU, where he teaches graduate and undergraduate courses in integrated emergency management; terrorism and weapons of mass destruction; incident command/ emergency operations center management; and numerous general courses in emergency management and homeland security. He is a Certified Emergency Manager (CEM) and is Board Certified in Homeland Security (American College of Forensic Examiners).

Prior to coming to ASU in 1994, Peterson spent 20 years in the United States Air Force. He held positions as instructor and flight examiner in C-130 aircraft and instructed in T-38s at Williams Air Force Base. Through his career, he also served as chief of air base operability, air field manager, nuclear, biological, and chemical survivability, and as assistant professor of aerospace studies at San Francisco State University.

After retiring from the Air Force, he worked for the Arizona Division of Emergency Management and still maintains a close liaison with the State Emergency Response Commission and Arizona Division of Emergency Management.
Located at Arizona State University, the Center for Emergency Management and Homeland Security provides comprehensive expertise, leveraging capabilities to provide solutions today and train the next generation of emergency management and homeland security professionals.

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