CYBERSECURITY

The Intersection of Policy and Technology

HARVARD Kennedy School
Executive Education
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THE INTERSECTION OF POLICY AND TECHNOLOGY

In a world with almost limitless connectivity, where cyber attacks can propagate instantaneously, and where the identity or location of an adversary may not be known, individuals and institutions are facing unprecedented vulnerabilities. With few ways to defend against the open and simple electronic pathways to create harm, powerful nations are forced to adapt to a shrinking margin of safety. In short, no nation, agency, industry, or firm is isolated from the dangers of cyberwar, cyberespionage, cyberterrorism, and cybercrime.

For those who are trying to protect critical infrastructure, this new age has brought tremendous challenges. The intersection of technology, law, and policy requires those who work in cybersecurity to understand more than their own specialized field.

Cybersecurity: The Intersection of Policy and Technology is an extension of the Cyber Project, a multidisciplinary research program based at the Belfer Center for Science and International Affairs at Harvard University. This breakthrough Harvard Kennedy School executive program is the first of its kind to focus on the intersection of policy and technology in an effort to combat network-based intrusions that disrupt productivity, jeopardize privacy, and threaten national security. Here, you and your peers will gain the tools necessary to conceptualize the cyber issue, develop policies appropriate for its resolution, and frame strategy and action to address emerging threats.

"This executive program brings together exactly the right people: professionals and practitioners who have tremendous expertise and experience, and come from many sectors of the U.S. government and abroad."

**– MS. DEBORAH AVIGAIL HOUSEN-COURIEL
SENIOR RESEARCHER, YUVAL NE'EMAN WORKSHOP FOR
SCIENCE, TECHNOLOGY AND SECURITY**

Cybersecurity: The Intersection of Policy and Technology is an intensive week-long program that brings together technologists, operators, and policy makers to address the critical threats of a cyber world. It is led by renowned Harvard faculty, senior policy makers, and cybersecurity experts, many of whom advise governments, agencies, and industry around the world on security and technology. Lectures, case studies, and exercises will focus on a conceptual framework for the design of both cybersecurity policy and technology, while group sessions will enable you to engage directly with your peers, solve problems, and discuss how cybersecurity insights can be applied in your own country and organization. During the program, you will:

» Develop a deeper understanding of the technical realities of cyberspace

» Explore the nature of emergent and future cyber threats

» Evaluate strategies and policy responses to these threats

» Build professional skills in group work and scenario assessment

While the curriculum focuses on the technical and policy aspects of security, surveillance, and conflict, you will also gain skills applicable to other situations in which policy and technology interact. Using case studies based on recent events, you will develop techniques of risk analysis and threat modeling applicable to a broad set of problems. Topics will include:

» Innovative approaches to leadership in the fields of cybersecurity strategy, policy, and management

» Strategy development in response to emerging threats around issues of identity, traceability, and protection

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- The evolution of hacking, from recreational to professional, and the impact on international security
- Notions of privacy, data, and metadata, and what they mean for international security
- Ongoing evaluation of cybersecurity strategy and policy responses to technology and security threats

WHO SHOULD ATTEND

A computer science background is not required to attend this program. It is designed for a broad range of policy leaders and technology experts from around the world who play strategic decision-making roles in both public and private organizations, including:

- Technologists developing new applications and frameworks who will need to detect, withstand, and counteract intrusions
- Senior officials in government agencies and the military involved in the oversight of technology, operations, and policy creation
- Business executives who need to balance an open environment for innovation while protecting their intellectual property
- Private and public sector legal experts tasked with codifying the law and understanding its limits

TO APPLY OR LEARN ABOUT PROGRAM DATES, CURRICULUM, TUITION, AND MORE, PLEASE VISIT

EXED.HKS.HARVARD.EDU/EE/CYBER

Admission is competitive and based on professional achievement and organizational responsibility. There are no formal educational requirements; however, fluency in written and spoken English is a necessity for participation.

Tad Oelstrom is Adjunct Lecturer in Public Policy and Director of the National Security Program at Harvard Kennedy School. His areas of focus are national and international security issues; U.S. military; and advanced development education for national security professionals. He served for more than 35 years in the U.S. Air Force, retiring as a Lieutenant General. Key senior command positions included three different fighter wings in England, Southwest Asia and Germany, the U.S. Third Air Force in England, and the U.S. Air Force Academy.

For a list of the 2015 faculty and speakers, please visit exed.hks.harvard.edu/ee/cyber

FACULTY & GUEST SPEAKERS

Throughout the program, Tad Oelstrom is joined by a variety of Harvard faculty members and cybersecurity leaders. Past speakers have included:

» General Keith B. Alexander, U.S. Army (Ret.), former Commander, U.S. Cyber Command and Director, National Security Agency/Chief, Central Security Service

» Scott Bradner, Secretary to the Board of Trustees of the Internet Society and Senior Technology Consultant, Harvard University

» Jonathan Zittrain, Professor of Law, Harvard Law School and Harvard Kennedy School, and Director of the Berkman Center for Internet & Society

» Dan Geer, Chief Information Security Officer, In-Q-Tel

» Melissa Hathaway, Cyber Security Initiative Senior Advisor, Belfer Center for Science and International Affairs at Harvard Kennedy School

» Gary King, Director, Institute for Quantitative Social Science and the Albert J. Weatherhead III University Professor, Harvard University

» Joseph S. Nye Jr., University Distinguished Service Professor and former Dean of Harvard Kennedy School

» Dr. Herbert Lin, Chief Scientist, Computer Science and Telecommunications Board, National Research Council of the National Academies

» Latanya Sweeney, Professor of Government and Technology in Residence, Harvard University

» Michael Sulmeyer, Senior Policy Advisor, Office of the Deputy Assistant Secretary of Defense for Cyber Policy

» Parisa Tabriz, Security Princess, Google

» Jim Waldo, Chief Technology Officer, Harvard University

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