Cybersecurity

The Intersection of Policy and Technology
“I came to Harvard Kennedy School with big expectations and returned with even greater takeaways: the Cybersecurity executive program was simply transformational and life-changing.”

— FREDERIC BONFANTI, PH.D
CHIEF INFORMATION SECURITY OFFICER
FRENCH GOVERNMENT ADMINISTRATION

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 a breakthrough executive program that builds upon the work of the Cyber Project at the Belfer Center for Science and International Affairs at Harvard University. It is the first offering 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.
Cybersecurity: The Intersection of Policy and Technology is an intensive weeklong program that brings together technologists, operators, and policymakers to address the critical threats of a cyber world. It is led by renowned Harvard faculty, senior policymakers, and cybersecurity experts, many of whom advise governments, agencies, and industries 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
» 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 corporate 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

» Corporate 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

WWW.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.

This program qualifies for the Public Policy Executive Certificate. Visit www.hks.harvard.edu/ee/certificate to learn more.
**FACULTY CHAIR**

**Jim Waldo** is the Gordon McKay Professor of the Practice of Computer Science and the Chief Technology Officer for the Harvard John A. Paulson School of Engineering and Applied Sciences. Jim is also a Professor of Policy at Harvard Kennedy School teaching on topics at the intersection of technology and policy. Prior to Harvard, he designed clouds at VMWare, was a Distinguished Engineer with Sun Microsystems Laboratories, and served as lead architect for Jini, a distributed programming system based on Java.

For this year’s faculty and speakers, please visit [www.hks.harvard.edu/ee/cyber](http://www.hks.harvard.edu/ee/cyber)

**FACULTY & GUEST SPEAKERS**

Throughout the program, Professor Waldo will be joined by a variety of Harvard faculty members and cybersecurity leaders. Past speakers have included:

- Dan Geer – computer security analyst and risk management specialist, and currently a Senior Fellow at In-Q-Tel, a not-for-profit strategic investor
- Christian Hamer – Chief Information Security Officer at Harvard University
- Melissa Hathaway – President of Hathaway Global Strategies LLC, Senior Fellow and member of the Board of Regents at Potomac Institute for Policy Studies, former Senior Advisor on the Cyber Security Project at Harvard Kennedy School, and former director of Cyber Initiatives to the Obama and Bush administrations
- Susan Hennessey – Lawfare Executive Editor, Brookings Fellow, CNN National Security and Legal Analyst, former IC attorney
- Lucas Kello – Associate Professor of International Relations at Oxford University, Senior Lecturer/Director of the Centre for Technology and Global Affairs, Co-Director of the Interdisciplinary Centre for Doctoral Training in Cyber Security at the Department of Computer Science
- Edlyn V. Levine, Ph.D. – Project Manager at the MITRE Corporation and a Research Associate in the Department of Physics at Harvard University
- Dr. Herbert Lin – senior research scholar for cyber policy and security at the Center for International Security and Cooperation and Hank J. Holland Fellow in Cyber Policy and Security at the Hoover Institution, both at Stanford University
- Eric Rosenbach – Co-Director of the Belfer Center for Science and International Affairs, former Chief of Staff to Secretary of Defense, former Assistant Secretary for Department of Defense
- David E. Sanger – Adjunct Lecturer in Public Policy, Chief Washington Correspondent of The New York Times
- Bruce Schneier – Renowned international security technologist and author, Adjunct Lecturer in Public Policy at Harvard Kennedy School
YOU’RE HERE TO MAKE A DIFFERENCE.