

PhD in Engineering & Public Policy

We offer a PhD program for students with technical backgrounds who want to address policy issues in which science and engineering are of central importance.

We are a highly interdisciplinary PhD program, approaching critical problems with teams of faculty and students who contribute a variety of skills, insights, and methods from different disciplines. Our work influences how others think about and research tough policy issues, as well as how decision makers develop and implement policy in government agencies, corporations, and non-government organizations in the US and internationally.

EPP Research

Risk Analysis and Risk Communication

Our work ranges from the analysis of new and underappreciated risks, to ways of improving risk management and regulation. We study public perception and how we can increase understanding of risks and encourage active participation in risk-related decisions.

Energy Systems

The world must make fundamental transformations in how we use and produce energy. Our teaching and research focuses on how we design, operate, and regulate energy systems so they meet the needs of society.

Climate and Environment

We seek policy solutions that effectively address environmental issues using a synthesis of perspectives from the sciences and other disciplines. Our research in greenhouse gases, atmospheric particulates and aerosols, climate-related decision making, and other critical environmental factors, has helped us affect policy change.

Information and Communication Technology Policy

We study policy challenges posed by advanced telecommunications and information technologies. How should telecommunications services and internet commerce be regulated? How should spectrum be managed? What policies and technologies are needed to help people protect their privacy online and better secure cyberspace?

Technology Innovation Policy

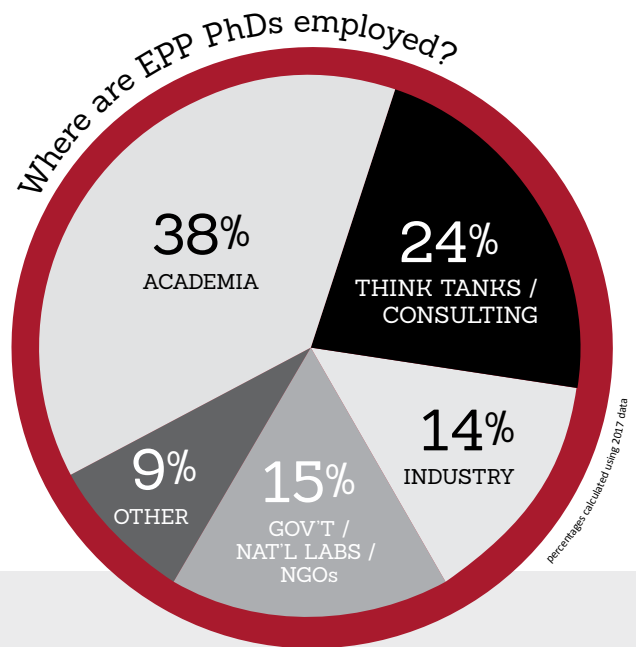
Technology innovation is fundamental to global economic prosperity and social equity and well being. Our work addresses these problems from “inside the black-box” of technology. We combine engineering, sociology, economics, and behavioral social science to seek socially beneficial problem-focused technological, institutional, and policy solutions.



The Engineering & Public Policy PhD Program

The PhD program includes a series of core classes on fundamental approaches and methods for engineering and public policy; as well as classes in statistics and economics; and electives in engineering, sciences, mathematics and the social sciences.

Research efforts begin early in the academic program with the first journal-quality research paper written during the third semester, and continue through the development of subsequent papers and a PhD thesis. While some work involves single investigators or small groups, much of it is conducted as part of the numerous Research Centers affiliated with the department.



Engineering & Public Policy graduate students...

are engineers, scientists and mathematicians adept in technical areas that affect issues nationally and internationally; in the environment, energy, risk, regulation, information technology, internet security and privacy, telecommunications, education, technology development and exchange, or economic development.

recognize that the technical details matter in many policy issues, and wish to obtain or enhance advanced disciplinary skills in engineering and science.

understand that the technical details are not all that matters, and want to learn and apply knowledge and methods in the social and behavioral sciences, economics, political science, and law.



Fast Facts

We have graduated 900+ undergraduates and 337 PhDs since EPP was established in 1976.

The PhD student body is 55% U.S. nationals, 33% women, and 5% underrepresented U.S. minorities.

Our award-winning faculty hold joint appointments with other departments across Carnegie Mellon.

Faculty routinely serve on, and chair, many government and industry advisory boards.

Questions on the application procedure? Contact Deborah Kuntz, Admission Coordinator, at eppadmt@andrew.cmu.edu or +1-412-268-3303.

cmu.edu/epp

updated 02.22.18