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

Engineering and Public Policy is a unique, interdisciplinary department approaching critical problems with teams of faculty and students. The MS program builds skills in risk assessment, data analysis, and decision-making needed to solve today’s complex problems in industry and government across the globe.

**EPP Focus Areas**

**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. We study how to 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 knowledge in greenhouse gases, atmospheric particulates and aerosols, climate-related decision making, and other critical environmental factors, can help affect policy change.

**Information and Communication Technology Policy**
We study policy challenges posed by advanced telecommunications and information technologies. Growth in telecommunication services and internet commerce require management and regulation of resources such as spectrum but also provider services. We study how 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 wellbeing. 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.

[cmu.edu/epp]
The MS in Engineering and Public Policy Program

The MS program is a professional MS program consisting of coursework with optional research or project work. Students complete two core courses on fundamental theory of policy analysis and on quantitative approaches and methods to provide a foundation for understanding the breadth of complex problems and their solutions. Students complete electives in both quantitative methods and social analysis and decision making to provide a balanced perspective on problem solving approaches. Finally, students complete elective courses to acquire depth of knowledge in a particular field.

<table>
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<tr>
<th>Theory, Practice, and Methods of Policy Analysis</th>
<th>Social Analysis Methods</th>
<th>Quantitative Methods</th>
<th>EPP Electives</th>
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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.