

Erica Fuchs

Professor at Carnegie Mellon University

Pittsburgh, PA, US

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Biography

Erica R.H. Fuchs is a Professor in the Department of Engineering and Public Policy at Carnegie Mellon University, and by courtesy in the Department of Materials Science and Engineering and the Heinz College of Information Systems and Public Policy. She is also a Research Associate with the National Bureau of Economic Research. Dr. Fuchs' research focuses on the development, commercialization and global manufacturing of emerging technologies, and national policy in that context. Today, Dr. Fuchs is passionate about building nationally the intellectual foundations, data, and analytic tools to inform National Technology Strategy across government missions. Toward realizing this vision, Dr. Fuchs is currently Director of the one-year \$4M pilot National Network for Critical Technology Assessment funded by NSF's Technology, Innovation and Partnerships Office, and involving academic thought-leaders from more than 13 Tier I research universities across the country; and founding Director of Carnegie Mellon's Critical Technology Strategy Initiative – an initiative spanning Carnegie Mellon's schools of engineering, computer science, and the Heinz College of Information Systems and Public Policy. She first learnt that she loved bringing faculty together in ways that the total is greater than the sum of the parts as founding Faculty Director of Carnegie Mellon University's Manufacturing Futures Initiative – an initiative across six schools aimed to revolutionize the commercialization and local production of advanced manufactured products, which today is an endowed institute. Over the past two decades, Dr. Fuchs has played a growing role in national and international meetings on technology policy, including co-chairing the National Academies Committee on U.S. Science and Innovation Leadership in the 21st Century, serving on the expert group that supported the White House in the 2016 Innovation Dialogue between the U.S. and China, and being one of 23 participants in the President's Council of Advisors on Science and Technology workshop that led to the creation of the Advanced Manufacturing Partnership. Dr. Fuchs currently serves on the M.I.T. Corporation's Visiting Committee for M.I.T.'s Institute for Data, Systems, and Society, of which M.I.T.'s Technology Policy Program is a part; and on the Advisory Editorial Board for Research Policy. Before coming to CMU, Dr. Fuchs completed her Ph.D. in Engineering Systems at M.I.T. in June 2006.

Industry Expertise

Research, Education/Learning, Public Policy, Writing and Editing

Areas of Expertise

Innovation Policy, Technology Development, Public Policy, Global manufacturing, Commercialization

Affiliations

Research Policy : Advisory Editorial Board

Education

Massachusetts Institute of Technology
S.M. Technology Policy

Massachusetts Institute of Technology
Ph.D. Engineering Systems

Massachusetts Institute of Technology
S.B. Materials Science and Engineering

Accomplishments

Philip L. Dowd Fellowship Award
2015

Distinguished Alumnus
2017 Reading High School Alumni Association

Carnegie Institute of Technology Dean's Early Career Fellow
2013

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