Carnegie Mellon University Electrical & Computer Engineering

ECE @ CMU

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Yuejie Chi yuejiechi@cmu.edu





What we do

In a nutshell, we develop...

new Circuits, Devices, Algorithms and Systems

to solve the Grand Challenges in

Computing Communication Storage Sensing

in the era of Big Data

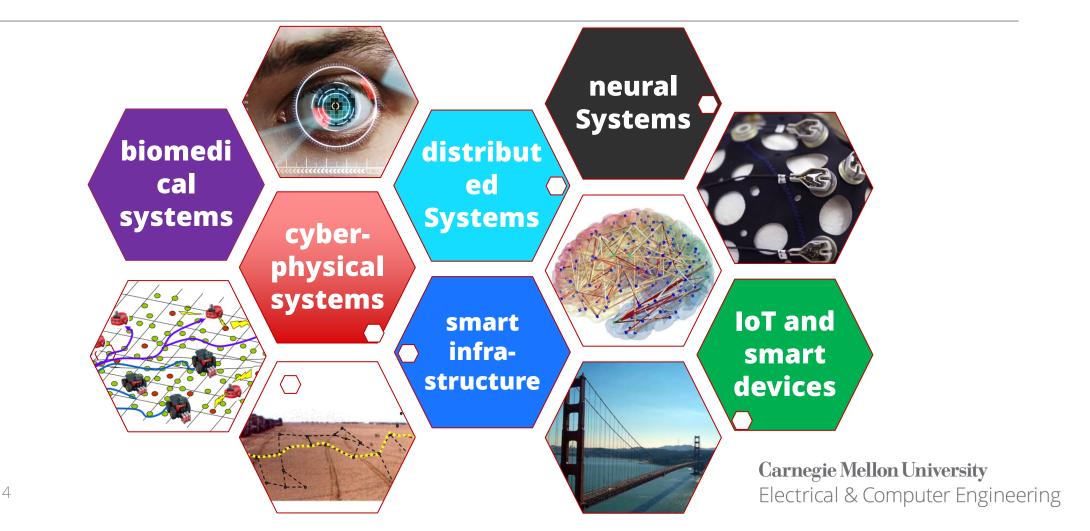






Carnegie Mellon University
Electrical & Computer Engineering

Emerging applications



Areas of study

Device Sciences and Nanofabrication: Solid state physics, semiconductors, magnetics, electromagnetic fields and waves, optics

Signals and Systems: Data analysis, machine learning, digital signal processing, communication systems, control systems, power systems

Circuits: Analog and digital circuits, integrated circuit design

Computer Hardware: Logic design, computer architecture

Computer Software: Programming, embedded systems, data structures, compilers, networks, operating systems

Facts & Numbers

People

- 217 PhD students, 300+ MS, 500+ BS
- 79 core faculty (tenure, research, teaching), 74 courtesy, 36 adjunct

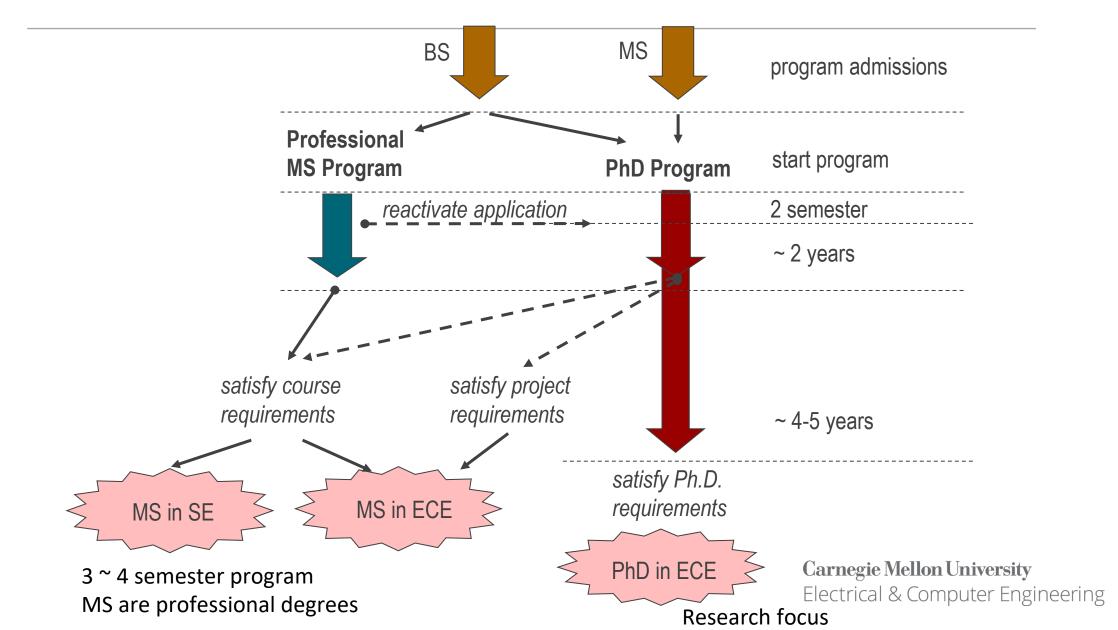
U.S. News & World Report

- UG: #1 CE, #6 EE
- Grad: #3 CE, #8 EE

Global: Pittsburgh, Silicon Valley, Africa, Portugal, Thail Garnegie Mellon University

Computer Engineering

CMU ECE: Our Programs and Degrees



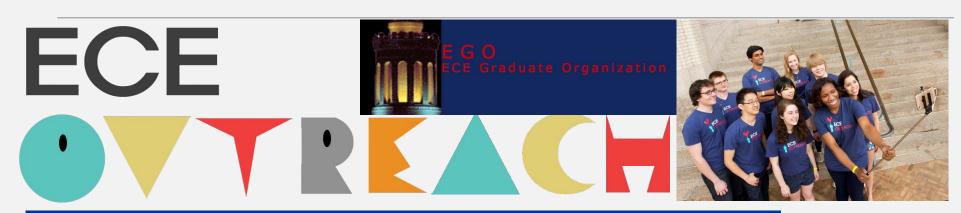
Professional MS Programs

- You're admitted into a professional degree program
 - MS in Electrical and Computer Engineering
 - Pittsburgh, Silicon Valley, Thailand, Africa
 - MS in Software Engineering
 - Silicon Valley
 - E&TIM (dual degree)
 - Pittsburgh or Silicon Valley
- Goal is to prepare you for developing creative pioneering solutions in industry through rigorous technical coursework
 - Optional research experience with CMU faculty

PhD Programs

- You're admitted directly into the PhD Program
 - You start the PhD program immediately—an MS is not required
- PhD Programs in ECE
 - Pittsburgh, Portugal, Thailand
- If you don't have an MS already, can get one along the way
 - The MS requirements are virtually a subset of the PhD
 - It provides a good milestone toward the PhD

ECE Student Organizations





Student Chapter Carnegie Mellon University

ECE SAC

CMU's ECE Student Advisory Council









www.ece.cmu.edu

