ECE 2023 FALL NEWSLETTER

click here to check out the BU ECE
2022-23 IMPACT REPORT

▶▶▶▶▶ Open Faculty Positions ◀◀◀◀◀
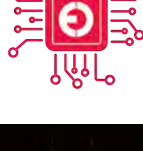
CHIPPING IN

Efficiently Secure Computing: In Part One of our series highlighting BU ECE's contributions to research and education under the umbrella of the CHIPS and Science Act of 2022, Professor Ajay Joshi and his research group are working to address a cloud computing quandary: how can we improve computational efficiency *without* sacrificing security?

[Learn More]

ECO-ECE

Garbage to (Bio) Gold: Professors Rabia Yazicigil and Douglas Densmore are contributing their respective specialties to the multi-disciplinary, multi-sector BioMADE consortium of researchers, brought together under a $3M industry grant to develop smarter, more efficient bioreactors for converting waste to useful products.

[Learn More]

ENGINEERING HEALTH

AI to Ease High Blood Pressure: "Our data-driven model is not just predicting an outcome, it is suggesting the most appropriate medication to use for each patient," according to Professor Ioannis Paschalidis, who is collaborating with physicians and fellow data scientists on the project.

[Learn More]

The Call is Coming from Inside: A smart pill no bigger than a blueberry can withstand the stomach's acidic fluids, detect signs of gastrointestinal trouble, and send warning signals to an ordinary smart phone, according to the results Professor Rabia Yazicigil and colleagues shared in *Nature*.
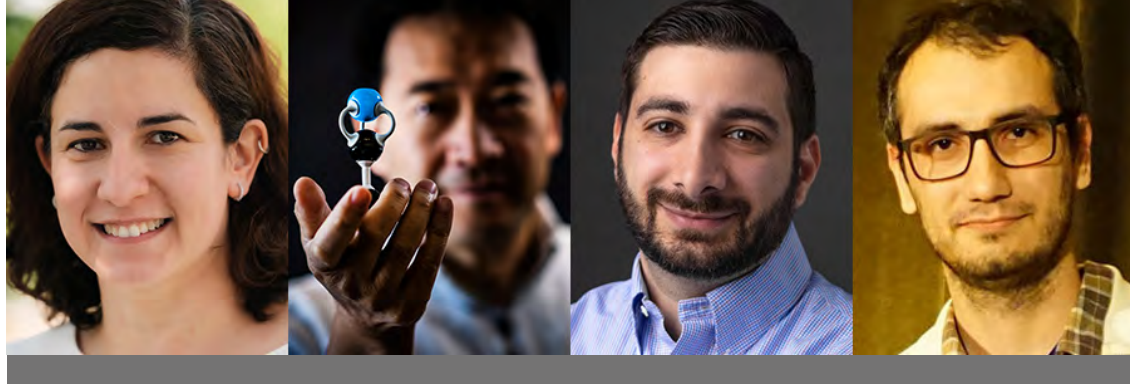
[Learn More]

Ultrafast Lasers Can Speed Up Biological Research: Professor Michelle Sander and her lab group at Boston University are seeking out new ways to build ultrafast lasers — lasers that emit such short-lasting pulses of light that their duration is difficult to fathom.

[Learn More]

ACHIEVEMENTS

- **Stepping Up:** Professor Ayse Coskun has been appointed as the College of Engineering's Interim Associate Dean for Research and Faculty Development.

- **Innovator of the Year:** Professor Ji-Xin Cheng was honored for his accomplishments as a prolific trailblazer who has excelled at bringing his imaging breakthroughs from research to industry.

- **Industrial Impact:** Unchained Labs recently acquired NanoView, a start-up founded by BU ECE alum George Daaboul (ENG'09, 13) around technology he originally developed as a student in Professor Selim Ünlü's lab.

- **A "Fuzzy" Method, Clarified:** BU ECE alum Sadullah Canakci (PhD'22) and co-authors, including former advisors Professors Ajay Joshi and Manuel Egele, received a Best Paper Award at IEEE HOST 2023 for their work on hardware fuzzing.

Distinguished Faculty

4 National Academy Members

3 Current/Former IEEE Society Presidents

50 Society Fellows

30 NSF, DOE and DOD Early Career Awards

40 Average H-Index per Faculty

8,500 Average Number of Citations per Faculty

51 Tenure-Track Faculty

RESEARCH FUNDING

Year	Funding
2013	$16M
2018	$27M
2023	$44M

$95 M
$45 M
$15 M

↑**175%** GROWTH OVER 10 YEARS

See the Impact Report for more!