Northeastern University
Chemical Engineering

FEATURING OUR NEWEST FACULTY

2023-2024

40
TENURED/
TENURE-TRACK
AND AFFILIATED FACULTY

$15M
EXTERNAL RESEARCH AWARDS
(FY2021 - 2023)

67%
T/TT FACULTY
ARE **FELLOWS** OR **YOUNG INVESTIGATOR AWARD** RECIPIENTS

Magda Barecka

Assistant Professor

Jointly Appointed: Chemistry and Chemical Biology

PhD: TU Dortmund University, Germany, 2017

Previously: Postdoc, University of Cambridge, Singapore 2019 – 2022
Processium/ Morgan Sindall 2018 - 2019

Scholarship focus: Transition to carbon-neutral chemicals production methods, electrochemical transformation of carbon dioxide, synthesis of advanced materials, process systems engineering and process intensification, sustainable methods for stable isotopes separation

Damilola Daramola

Assistant Professor

Jointly Appointed: Chemistry and Chemical Biology

PhD: Ohio University, 2011

Previously: Assistant Professor, Ohio University

ChE Research: Energy & sustainability, complex & computational systems, and materials & nanotechnology

Scholarship Focus: Electrochemical engineering, food-energy-water nexus, resource recovery, wastewater remediation, atomic and process simulations, thermosetting composites, polymer upcycling

Award: 2022 Ralph E. Powe Junior Faculty Enhancement Award in Engineering and Applied Science

Allison Dennis

Associate Professor

PhD: Georgia Institute of Technology, 2009

Previously: Assistant Professor, Boston University

Scholarship Focus: Semiconductor quantum dots, fluorescence biosensing, biomedical imaging, in vivo imaging

Awards:

- Scialog ABI (Advanced Biomedical Imaging) Fellow, 2021-23
- MAVEN Sr. Scientist, 2021-22
- Fulbright Scholar, 2002-2003

Marsha Rolle

Research Professor

Associate Director of Life Sciences/BioPILOT Programs, The Roux Institute

PhD: University of Washington, 2003

Previously: Professor, Worcester Polytechnic Institute

Scholarship Focus: Engineered vascular tissue models, biopolymer materials, bio- and cell manufacturing, tissue engineering

Rebecca Sherbo

Assistant Professor

Jointly Appointed: Chemistry and Chemical Biology

PhD: University of British Columbia, 2019

Previously: Postdoc, Harvard University and Harvard Medical School

Scholarship Focus: Electrochemical and bilogical ways to make important chemical products, like foods and fuels, from gases and renewable energy

Biomolecular & Biomedical Systems

Complex & Computational Systems

Energy & Sustainability

Engineering Education & Pedagogy

Materials & Nanotechnology

Northeastern University
College of Engineering

360 Huntington Avenue
230 Snell Engineering Center
Boston, MA 02115
che.northeastern.edu

About Chemical Engineering at Northeastern

The department has **40** tenured/tenure-track and affiliated faculty. During 2021 to 2023, the department received over **$15 million** in external research awards. Our downtown Boston campus facilitates collaborations with major medical centers, other universities, research laboratories, national laboratories, and industry. Our faculty actively contribute to scholarship to solve problems related to health, sustainability, and energy.