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 biological 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
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.