Joint Department of Biomedical Engineering

Biomedical Engineering (BME) is a fast-growing, interdisciplinary field that integrates engineering, mathematics, medicine, and science to improve human health and quality of life. In the Joint Department of BME, students are given access to state-of-the-art equipment and facilities at both NC State University and UNC-Chapel Hill. This unique relationship offers students a wealth of opportunities for research, group collaboration, coursework, and exposure to experts in medicine and engineering. While all of the classes undergraduate students need to complete their degree are available on their home campus, students may choose to take courses at either campus. Students never have to travel to the partner campus; the joint program simply offers additional opportunities.

After completing core courses and being admitted through a competitive process to the program, students are effectively admitted to the partner campus. Students have full standing at both NC State and UNC. Upon graduation, the diploma bears the seals and signatures of both universities, and the Biomedical and Health Sciences Engineering program is accredited by the Engineering Accreditation Commission of ABET, https://www.abet.org.

Department Highlights:

- Students interested in Biomedical Engineering can join any of several student organizations including the Biomedical Engineering Society Student Chapter (https://getinvolved.ncsu.edu/organization/bmes/), The Helping Hand Project (https://getinvolved.ncsu.edu/organization/helpinghandproject/), and the Engineering World Health Club (https://getinvolved.ncsu.edu/organization/ewh-ncsu/).
- Students have the opportunity to study abroad (https://honorscarolina.unc.edu/global-honors/scotland/) in Edinburgh, Scotland studying the process of innovation in the context of healthcare delivery and technology.
- Students gain skills in manufacturing processes and biological synthesis while following the guidelines for FDA approval for a medical device.
- Students in this degree program are eligible for The Abrams Scholarship Program (https://www.bme.unc.edu/congratulations-to-the-2017-2018-abrams-scholars/) and The Lucas Scholar Fellowship (https://www.bme.unc.edu/lucas-scholar-fellowship/).

For more information about our department, including contact information, visit our website (https://www.bme.unc.edu/).

Joint Department of Biomedical Engineering
North Carolina State University
4310 Engineering Building III
Campus Box 7115
Raleigh, NC 27695-7115

Contact
Dr. Paul Dayton
Professor and Department Head
North Carolina State University

4012 Engineering Building III
Raleigh, NC 27695
919.843.9521
padayton@email.unc.edu

Faculty
Department Chair
Paul Dayton

Associate Chairs
Lianne Cartee, Associate Chair for Education
Shawn Gomez, Associate Chair for Research

Directors
Lianne Cartee, Director of Undergraduate Studies
Matthew Fisher, Director of Graduate Studies

Associate Director
Naji Husseini, Associate Director of Undergraduate Studies

Distinguished Professors
Lianne Cartee, Alumni Distinguished Undergraduate Professor
Paul Dayton, William R. Kenan Jr. Distinguished Professor
He (Helen) Huang, Jackson Family Distinguished Professor
H. Troy Nagle
Roger Narayan
Koji Sode, William R. Kenan Jr. Distinguished Professor

Professors
Lianne Cartee
Ke Cheng
Greg M. Forest
Caterina Gallippi
Shawn Gomez
Edward Grant
Leaf Huang
Michael Jay
Associate Professors
Ashley Brown
Susan Bernacki
Jacqueline Cole
Michael Daniele
Bob Dennis
Kenneth Donnelly
Oleg Favorov
Matthew Fisher
Jason Franz
Donald Freytes
Michael Gamcsik
David Hill
Devin Hubbard
Naji Husseini
Derek Kamper
David Lalush
Jeffrey Macdonald
Scott Magness
Matthew Penny
Gianmarco Pinton
Nitin Sharma
Mark Tommerdahl
Anka Veleva
Bruce Wiggin
David Zaharoff
Wen Yih Aw
Rahima Benhabbour
Yevgeny Brudno
Joseph Burclaff
Melissa Caughey
Silvia Ceballos
Brian Diekman
Alon Greenbaum
Michael Jay
Kennita Johnson
Jinwook Kim
Wesley Legant
Ming Liu
Virginie Papadopoulou
Silvia Ceballos Pelaez
Ross Petrella
William Polacheck
Imran Rizvi
Mike Sano
Francisco Santibanez
James Tsuruta

Lecturer
Nick Jardine

Plans
- Biomedical Engineering (BS) (http://catalog.ncsu.edu/undergraduate/engineering/biomedical/biomedical-engineering-bs/)
- Biomedical Engineering Honors Program (Honors) (http://catalog.ncsu.edu/undergraduate/engineering/biomedical/biomedical-honors-program/)
- Tissue Engineering (Minor) (http://catalog.ncsu.edu/undergraduate/engineering/biomedical/tissue-engineering-minor/)