

Lampe 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 Lampe Joint Department of Biomedical Engineering, 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 Carolina Adapts Toys for Children (CATCH) (<https://getinvolved.ncsu.edu/organization/catch/>).
- 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. **Offered periodically*
- 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/>).

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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

J. Michael Ramsey

Koji Sode, *William R. Kenan Jr. Distinguished Professor*

Professors

Lianne Cartee

Ke Cheng

Greg M. Forest

Caterina Gallippi

Harvinder Gill

Shawn Gomez

Weili Lin

Scott Magness

Troy Nagle

George (Rick) Stouffer

David Zaharoff

Associate Professors

Rahima Benhabbour

Ashley Brown

Yevgeny Brudno

Jacqueline Cole

Michael Daniele

Bob Dennis

Brian Diekman

Kenneth Donnelly

Uzay Emir

Oleg Favorov

Matthew Fisher

Jason Franz

Donald Freytes

Michael Gamcsik

David Hill

Devin Hubbard

Naji Hussein

Derek Kamper

David Lalush

Jeffrey Macdonald

Matthew Penny

Ross Petrella

Gianmarco Pinton

Nitin Sharma

Anka Velea

Bruce Wiggin

Assistant Professors

Amy Adkins

Pritha Agarwalla

Wen Yih Aw

Joseph Burclaff

Melissa Caughey

Silvia Ceballos Pelaez

Philip Durham

Alon Greenbaum

Geoffrey Handsfield

Kennita Johnson

I-Chieh Lee

Wesley Legant

Ming Liu

Margo MacDonald

Virginie Papadopoulou

William Polacheck

Hayley Richardson

Imran Rizvi

Francisco Santibanez

Sarah Shelton

Cameron Taylor

James Tsuruta

Michael Wilkins

Amol Yadav

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/>)