

Department of Chemical and Biomolecular Engineering

Like the field of chemical engineering itself, our department's work transcends disciplinary lines. Our students, faculty, and alumni work with colleagues across the academic and engineering spectrum in fields such as biotechnology, polymers, nanotechnology, energy and environmentally responsive processes, and biomanufacturing. Our students learn by doing in cutting-edge labs and facilities. They work hand-in-hand with industry and government partners to get things done, from sponsored research that advances our understanding of the world to senior design projects that tackle real-life problems. When they graduate, our students are ready for the next step: roughly 85% go into the chemical or pharmaceutical industries, and 15% pursue graduate or professional studies.

Department Highlights:

- Undergraduate students have the option to pursue concentrations within the curriculum, including Biomolecular, Biomanufacturing, Nanoscience, and Sustainable Engineering, Energy, and the Environment. We also offer a departmental Honors Program.
- The American Institute of Chemical Engineers (AIChE) student chapter has been consistently recognized as one of several Outstanding Chapters for the last 25 years.
- Almost 20% of NCSU CHE students have a university, college, or departmental scholarship.
- Many internship and co-op opportunities are available, with almost 15% of our students completing a co-op.

For more information about our department, including contact information, visit our website (<https://www.cbe.ncsu.edu/>).

Department of Chemical and Biomolecular Engineering

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Faculty

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S. Simon

Associate Head

J. Genzer

Directors

L. Bullard, *Director of Undergraduate Programs*

R. Kelly, *Director of NCSU Biotechnology Program*

M. Abolhasani, *Director of Graduate Programs*

Alcoa Professor

R. Kelly

F. Li

Alumni Distinguished Graduate Professor

P. Fedkiw

Camille and Henry Dreyfus Professor

M. Dickey

Celanese Acetate Professor

G. Parsons

Distinguished University Professor

S. Simon

R. Spontak

Frank Hawkins Kenan Distinguished Professor

R. Carbonell

INVISTA Professor

S. Khan

S. Frank and Doris Culberson Distinguished Professor

J. Genzer

O. Velev

Worley H. Clark Jr. Distinguished University Professor

C. Hall

Professors

C. Grant

J. Haugh

B. Rao

P. Westmoreland

Research Professor

G. McKenna

Professor Emeritus

J. DeSimone, *William R. Kenan, Jr. Distinguished Professor*

R. Felder, *Hoechst Celanese Professor*

M. Flickinger

K. Gubbins, *W.H. Clark Professor*

H. Hopfenberg, *Camille and Henry Dreyfus Professor*

H. Lamb

P.K. Lim

Alumni Distinguished Undergraduate Professor

L. Bullard

M. Cooper

Alcoa Scholar

M. Abolhasani

Goodnight Distinguished Scholar

A. Keung

Associate Professors

L. Hsiao

S. Menegatti

A. San Miguel

E. Santiso

Q. Wei

Associate Research Professor

K. Efimenko

Associate Professor Emeritus

S. Peretti

H. Winston

Assistant Professors

N. Crook

A. Rumyantsev

W. Tang

Assistant Research Professor

L. Neal

Teaching Assistant Professor

H. Golpour

Adjunct Professors

E. Muller

M. Sliwinskia-Bartowiak

J. Trainham

Adjunct Associate Professors

A. Andrady

C. Boi

O. Rojas

K. Velikov

Plans

- Biomanufacturing (Certificate) (<http://catalog.ncsu.edu/undergraduate/engineering/chemical-biomolecular/biomanufacturing-certificate/>)
- Biomanufacturing (Certificate) (For Post-Baccalaureate Students) (<http://catalog.ncsu.edu/undergraduate/engineering/chemical-biomolecular/biomanufacturing-certificate-post-baccalaureate/>)
- Biomanufacturing (Minor) (<http://catalog.ncsu.edu/undergraduate/engineering/chemical-biomolecular/biomanufacturing-minor/>)
- Chemical Engineering (BS) (<http://catalog.ncsu.edu/undergraduate/engineering/chemical-biomolecular/chemical-engineering-bs/>)
- Chemical Engineering (BS): Biomanufacturing Sciences Concentration (<http://catalog.ncsu.edu/undergraduate/engineering/chemical-biomolecular/chemical-engineering-bs-biomanufacturing-sciences-concentration/>)
- Chemical Engineering (BS): Biomolecular Concentration (<http://catalog.ncsu.edu/undergraduate/engineering/chemical-biomolecular/chemical-engineering-bs-biomolecular-concentration/>)
- Chemical Engineering (BS): CHE/TE Dual Major (<http://catalog.ncsu.edu/undergraduate/engineering/chemical-biomolecular/chemical-engineering-bs-textile-dual-major/>)
- Chemical Engineering (BS): Honors Concentration (<http://catalog.ncsu.edu/undergraduate/engineering/chemical-biomolecular/chemical-engineering-bs-honors-concentration/>)
- Chemical Engineering (BS): Nanoscience Concentration (<http://catalog.ncsu.edu/undergraduate/engineering/chemical-biomolecular/chemical-engineering-bs-nanoscience-concentration/>)
- Chemical Engineering (BS): Sustainable Engineering, Energy, and the Environment (<http://catalog.ncsu.edu/undergraduate/engineering/chemical-biomolecular/chemical-engineering-bs-sustainable-engineering-energy-environment/>)
- Chemical Engineering (Minor) (<http://catalog.ncsu.edu/undergraduate/engineering/chemical-biomolecular/chemical-engineering-minor/>)
- Paper Science and Engineering (BS): Dual Major (<http://catalog.ncsu.edu/undergraduate/natural-resources/forest-biomaterials/paper-science-engineering-bs-dual-major/>)