

BIOLOGICAL ENGINEERING PH.D. AT CU BOULDER

ADVANCING HUMAN NEEDS BY ENGINEERING BIOMOLECULES AND BIOLOGICAL SYSTEMS

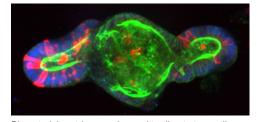
World-class education

- » Established, world-class faculty performing innovative research in tissue engineering, biomaterials and advanced manufacturing
- » Develop life-saving vaccines
- » Create biomaterial scaffolds with controlled architectures and chemistries
- » Revolutionize antibiotic development
- » Develop new tools for studying cell behavior
- » Manipulate biosynthetic pathways to make drugs and fuels
- » Model dynamics of biomolecular interactions

Innovative coursework

- » Core and elective courses dedicated to principles of engineering biomolecules, cells, tissues and systems
- » Learn how biological components interact on many size scales
- » Understand the interplay of different interactions, networks and systems
- » Create concrete models from complex data
- » Integrate basic science and computation with engineering

Learn more at colorado.edu/chbe/prospective-grad



Biomaterial matrices engineered to direct stem cells into growing intestinal organoids (Image courtesy of the Anseth Group).

Why pursue a Ph.D. in Biological Engineering at CU Boulder?

- » Natural synergies with the BioFrontiers Institute, the Renewable and Sustainable Energy Institute and the Anschutz Medical Campus
- » No interview required to join the program. Application fees waived for GPA > 3.5
- » We encourage applications from all engineering disciplines, physics, mathematics, computer science, molecular and cell biology, biochemistry and chemistry



CHEMICAL ENGINEERING AT CU BOULDER

World-class education

- » Expert faculty in the fields of biomaterials and tissue engineering, polymeric materials, energy and catalysis, pharmaceutical biotechnology, nanotechnology, biomolecular and celluar engineering, membranes and separations and interfacial science
- » Diverse faculty and graduate students who cultivate inclusivity and collaboration
- » Flexible curriculum with emphasis on professional growth and development
- » 30% growth in faculty across disciplines
- » Competitive stipend (\$33,100 per year)

In the perfect location

- » Close connections with NREL, BioFrontiers, RASEI, the Soft Materials Research Center and more
- » World-class facilities nestled at the foot of the Rocky Mountains offers a unique location and experience
- » Long and established history of promoting entrepreneurship through the creation of start-up companies



- » #15 in U.S. News & World Report
- » #1 Recognized Faculty (Shanghai Ranking)
- » 3 National Academy Members
- » 4 MRS Outstanding Young Investigators
- » 10 NSF CAREER Awards
- » 2 AIChE Colburn Awards
- » 1 AIChE Lifetime Achievement Award

Apply by December 15, 2020 at colorado.edu/chbe/graduate-program/prospective-graduate-students

Application fee waivers are available for outstanding domestic and international students

Visit our website or contact chbegrad@colorado.edu for more details