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

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

Why pursue a PhD 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

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