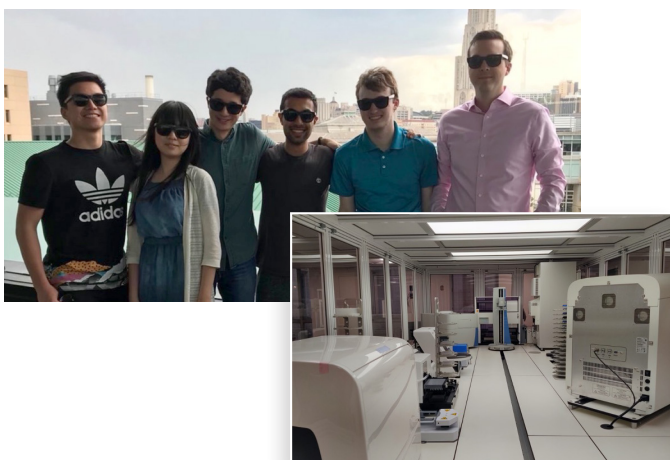




The Bachelor of Science in Computational Biology

The Future of Biology Is Computational

Biology is at its heart a data science, and at Carnegie Mellon University we're training a new generation of computer scientists to tackle its big, unsolved problems. Our undergraduate program — unique to CMU — explores frontier problems in modern biology and medicine while providing the unparalleled computational education and quantitative rigor of the world-leading School of Computer Science.



WHAT MAKES OUR PROGRAM UNIQUE?

- Students interested in medical careers can learn about methods revolutionizing medicine.
- We guarantee tailored research mentoring by world-class faculty to all our students.
- We offer computational biology courses starting in the first year of the program.
- Students can drive robotic instruments in our new automated biology lab.
- We host fun events, from cookouts and snow tubing to visiting Pittsburgh's Kennywood amusement park.
- Prospective employers often visit campus to speak about the exciting (and high-paid) work they do.

WHAT DO COMPUTATIONAL BIOLOGISTS DO?

- Leverage machine learning to discover vaccines for viruses like COVID-19.
- Design computational methods that can diagnose patients faster than a doctor.
- Search for new drugs to treat complex diseases such as cancer.
- Genetically engineer high-yield crops that are tastier and healthier.
- Use artificial intelligence to find patterns in cellular images that elude the human eye.
- Unlock the secrets of nature's most amazing computer: the human brain.



Computational
Biology
Department

5000 FORBES AVENUE
PITTSBURGH, PA 15213-3890

f t @CMUCompBio

cbd.cmu.edu

INTERESTED? JOIN US!

1

Apply to Carnegie Mellon's School of Computer Science by January 1.

2

Check the box for "Computational Biology."

3

In your essay, describe why you would love to study computational biology at CMU.