

CampBioE 2.0

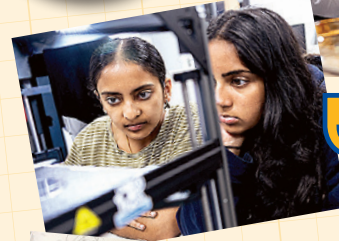


About CampBioE 2.0

In 2007, Pitt Bioengineering initiated **CampBioE**, an interactive summer camp for middle and high school scholars that explores bioengineering and regenerative medicine. Now **CampBioE 2.0**, initiated in 2024 under the leadership of Dr. Katrina Knight, the camp includes elementary school scholars, with continued focus on inspiring lasting engagement in STEM+. In 2025, **CampBioE 2.0** collaborated with Dr. Daniel Shiwarski's VESSELS Program in vascular bioengineering and 3D bioprinting to create a new curriculum for high school scholars.

Curriculum Focus

In 2025, our high school scholars were introduced to 3D design and bioprinting. They explored tissue engineering by converting a plastic printer into a bioprinter creating hydrogels shaped like vascular networks and organ models. Our middle and elementary school scholars designed a modified cup for cerebral palsy patients, built the chambers of the heart using household items, and simulated the use of ferrofluid for targeted drug delivery, microplastic filtration, and more.



“ This camp really built my son’s confidence. It was well run, he was challenged but not overwhelmed, and the friendly competition between the groups kept him engaged. He’s excited to investigate some of these STEM+ topics in more detail in school this year! ”
– Parent Testimonial

31 CampBioE 2.0 scholars

74% received scholarships

55% female

5 weeks of camp

48% underrepresented minorities (URM) in STEM+

hosted at the Homewood Community Engagement Center (CEC), University of Pittsburgh



Thank You to Our Partners

CampBioE 2.0 would not be possible without the generous support of our donors. Thank you to the alumni, industry partners, and BioE community members who contribute and enable CampBioE 2.0 to thrive. Your commitment helps us provide scholarships, hands-on learning opportunities, and an engaging curriculum that aims to inspire the next generation of engineers. Thank you for investing in our scholars and making this year’s program a success!



LOOKING AHEAD...

CampBioE 2.0 is looking forward to continued collaboration with the Vascular Medicine Institute’s VESSELS program, to bring another exciting curriculum to Homewood in 2026!

LEADERSHIP

- Katrina Knight, PhD**, CampBioE 2.0 Director and Assistant Professor, BioE
- Daniel Shiwarski, PhD**, Vessels Program Director and Assistant Professor, BioE
- Sanjeev Shroff, PhD**, BioE Department Chair
- Kristen Gallik, MBA**, BioE Events Manager

CampBioE 2.0 Counselors

- Zachary Conlon** (BS Pitt BioE '27)
- Alwaled Sabri** (BS Pitt BioE '27)
- Bryan Slaton** (BS Pitt BioE '27)
- Erica Taylor** (BS Pitt BioE '25)

VESSELS Volunteers

- Brian Coffin, PhD**, Postdoctoral Fellow
- Isabel Joyce** (PhD BioE '29)
- Owen Kaufman** (BS Pitt MEMS '29)

