

As an internationally-recognized leader in synthetic biology education, BioBuilder's 3-day workshops introduce synthetic biology curriculum with a mixture of classroom, laboratory and design activities that are applicable in many settings.

By presenting authentic research questions in accessible, modular, and teachable form, BioBuilder aims to spark interest, engagement, and understanding in STEM fields.

Who should attend?

Any educator looking to incorporate bio-engineering in their classroom:

- High school Biology, Biotechnology, Engineering, and STEM teachers, including technical schools & those teaching AP content
- Science club leaders
- College level instructors



What can participants expect?

- Instruction from practicing bioengineers and high school BioBuilder Master Teachers
- Master the BioBuilder curriculum through a mixture of engaging classroom lecture, laboratory, and interactive design activities
- Leave with ready-to-teach lessons that bring engineering into your classrooms, labs, and science clubs
- Become part of the BioBuilder community – participants will receive resources and ongoing support from Master Teachers within the community

Feedback from Past Attendees

"The format and the labs are very well structured. Excellent instructors."

"I hope to start a BioBuilderClub at my school, and incorporate part of the BioDesign into my science research program."



"It was a lot of fun and quite challenging. Everything was incredibly well designed and organized and the manipulatives were amazing."

"I learned a lot of new strategies to use right away! This was awesome!!!"

Bio-engineering Essentials

Held at:

BioBuilder
Learning Lab @ LabCentral
700 Main Street
Cambridge, MA 02139

21 PDPs provided to MA educators

**Cambridge,
Massachusetts**

**August 5 - 7, 2020
9:00 AM - 4:00 PM**

Tuition:

\$400 - Early Bird pricing
(through April 15)

\$500 - Full fee
(after April 15)

*A \$50 deposit is due at registration

Ready to gain new knowledge and skills in the emerging field of synthetic biology?

[Register here](#)

More information at biobuilder.org/program/workshops/
Questions? Email carla@biobuilder.org

Meet the Instructors



Dr. Natalie Kuldell is the Founder and Executive Director of BioBuilder. Natalie has taught for more than a dozen years in the Department of Biological Engineering at the Massachusetts Institute of Technology. She is a highly regarded educator who develops discovery-based curricula drawn from the current literature to engage students in structured, reasonably authentic laboratory and project-based experiences. She studied Chemistry as an undergraduate at Cornell, completed her doctoral and postdoctoral work at Harvard Medical School, and taught at Wellesley College before joining the faculty at MIT in 2003.



Dr. Rebekah Ravgiala teaches Biology and Advanced Placement Biology at Tyngsborough High School in Tyngsborough, Massachusetts. She holds a B.A. in Biology and a doctorate in Mathematics and Science Education. She has been actively involved in the BioBuilder community since 2011, leading a BioBuilderClub team, and serving as a member of its Board of Directors. She is a recipient of the ASBMB Fostering K12/University Partnership Grant and the AMGEN Excellence in Science Teaching Award.

Lab | Central

