

BioBuilder

Educational Foundation

Professional Development Workshops

INFORMATION & OUTCOMES



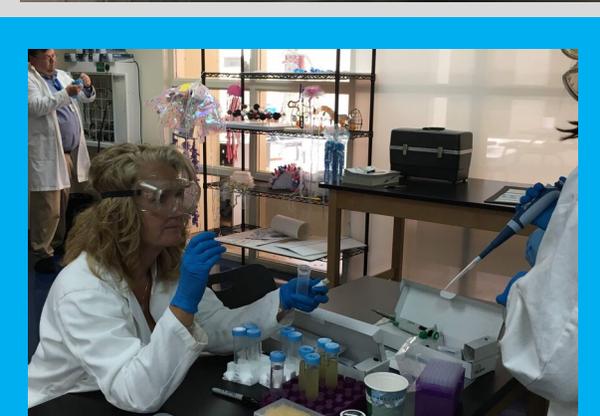
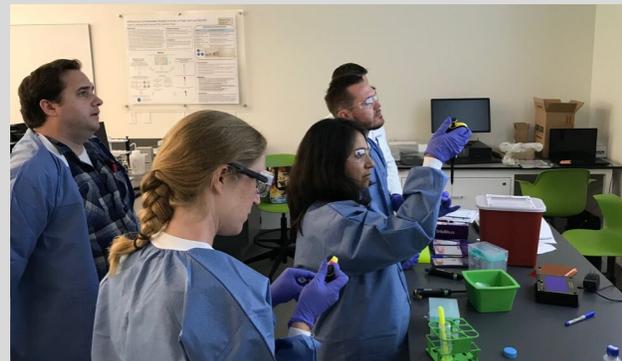
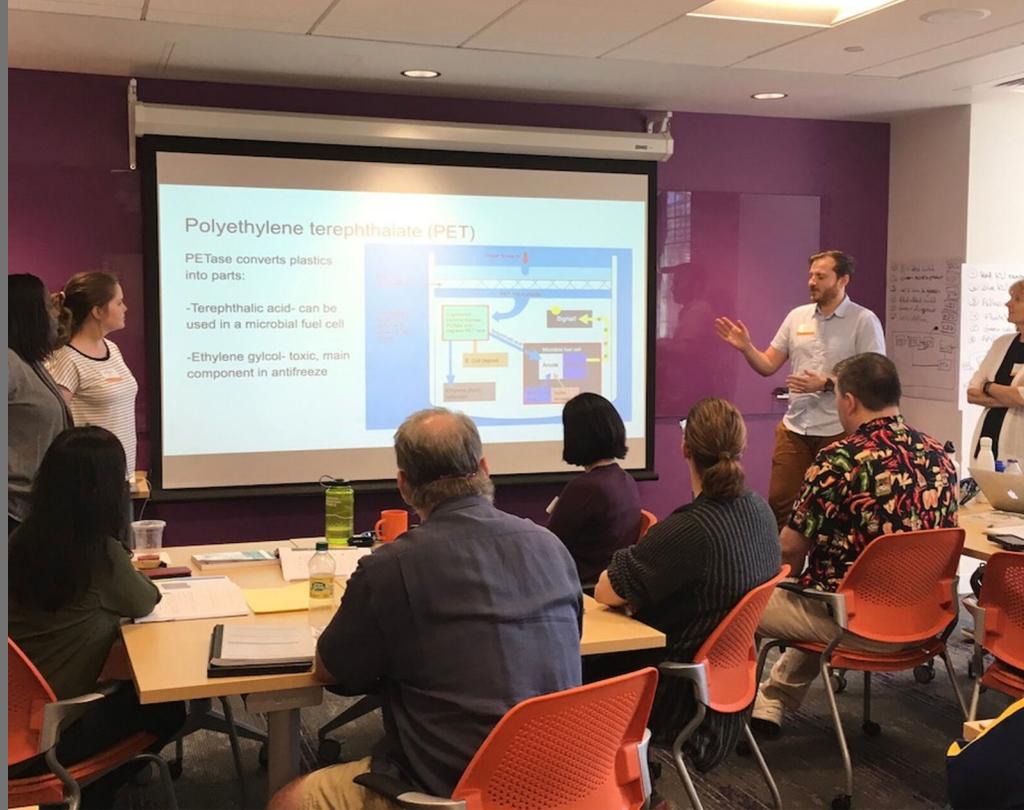
SUMMER

2019

A mixture of classroom, laboratory and design activities provide a 3-day professional development experience that is both accessible and inspiring.

Teachers leave with ready-to-teach lessons that bring engineering into biology classrooms, labs or science clubs.

Workshops are co-led by a university-level scientist and a Master BioBuilder high school teacher.



A typical workshop day includes an opening activity, a few hours of interactive lecture, a lunchtime activity or speaker, and several hours of laboratory work where teachers learn how to perform as well as teach the BioBuilder materials.

In addition to summer PD programs, BioBuilder offers customized workshops throughout the year, including conference workshops, half-day programs, advanced training, and events for school administrators.



Dr. Natalie Kuldell

Founder and Executive Director of The BioBuilder Educational Foundation, Natalie has taught for more than a dozen years in the Department of Biological Engineering at the Massachusetts Institute of Technology. She studied Chemistry as an undergraduate at Cornell, completed her doctoral and post-doctoral work at Harvard Medical School, and taught at Wellesley College before joining the faculty at MIT in 2003.

INTERACTIVE



LAB & CLASSROOM ACTIVITIES



ATTENDEE DATA & OUTCOMES

58

ATTENDEES

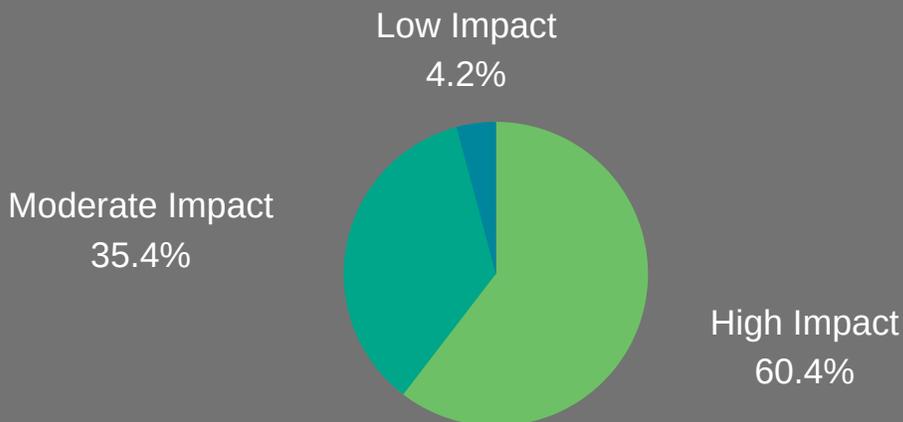
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LOCATIONS

Teachers attended from:

- California
- Connecticut
- Florida
- Georgia
- Indiana
- Massachusetts
- New Jersey
- New York
- North Carolina
- Pennsylvania
- Texas
- Utah
- Washington DC
- Mexico

Extent that enthusiasm for teaching synthetic biology changed following workshop

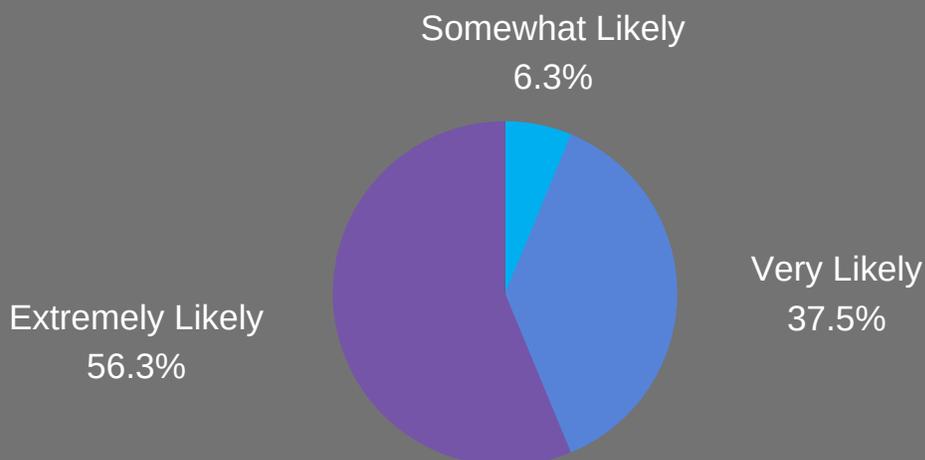


5,000

Estimate number of students that participants will teach next academic year



Likelihood to integrate workshop material into future work

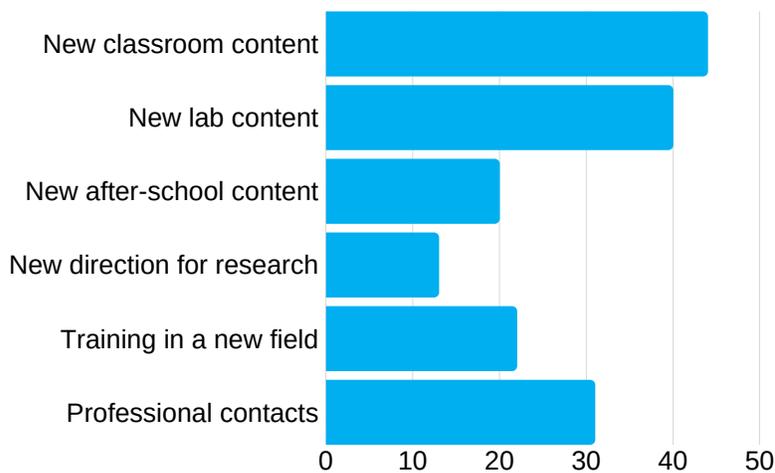


OUTCOMES & TESTIMONIALS

Summer 2019 Workshops were held at:

- LabCentral-Cambridge, MA
- University of California San Diego
- University of North Carolina Chapel Hill
- Oxbridge Academy-West Palm Beach, FL
- FirstHand-Philadelphia, PA

What have you gained from this workshop?

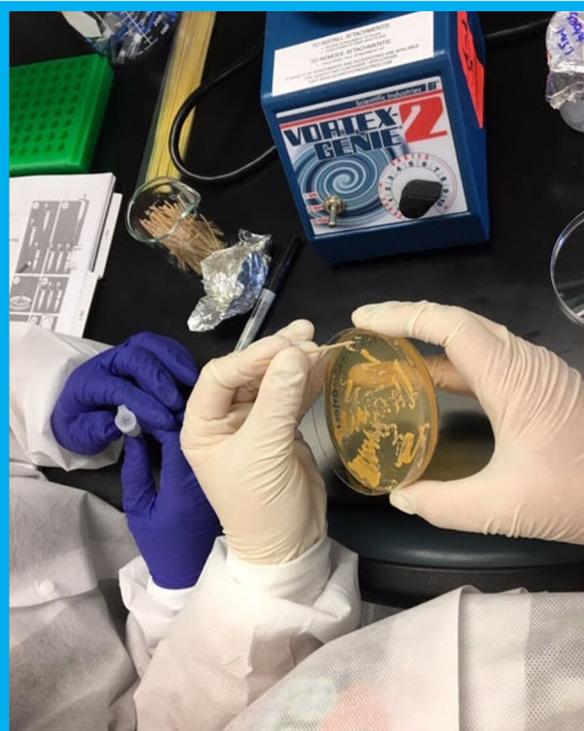


"I have more confidence in bringing these concepts and materials into my classes."

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

"So engaging and rich with great information!"

"Great job! Very well done! Very inspiring!"



Most of the Teachers surveyed

Indicated that they were very satisfied with this PD experience

Expressed interest in further training that brings more BioBuilder content and teaching opportunities

"I just wanted to thank you once more for this great workshop. It was a lot of fun and quite challenging. Everything was incredibly well designed and organized and the manipulatives amazing. I am looking forward to using some in my classes this year."



BioBuilder gratefully acknowledges our partners for their support of the Professional Development Workshops.

Together we're transforming education.

