**Synthetic Biology - STEM**

**Professional Development Workshops**

2019 BioBuilder 3-Day Professional Development Workshops will be held at:

* Oxbridge Academy, West Palm Beach, Florida: June 11 - 13
* University of North Carolina, Chapel Hill, North Carolina: July 10 - 12
* University of California, San Diego, California: August 5 - 7
* BioBuilder Learning Lab, Cambridge, Massachusetts: August 6 - 8

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BioBuilder is bringing tomorrow’s science into today’s classrooms, reconnecting teachers and students with the joy of learning.

Our three-day workshops prepare educators to bring biological engineering and synthetic biology into their classrooms and laboratories, using real-world engineering challenges to teach life sciences.

BioBuilder is a one-of-a-kind curriculum in the field of synthetic biology. Synthetic biology is an emerging field that applies engineering and mathematical principles to the development of novel biological systems.

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BioBuilder converts cutting-edge science and engineering into teachable modules, fostering an engaged community and increased understanding of these fields. Our curriculum has grown out of a partnership between researchers at MIT and secondary school teachers around the country. BioBuilder connects academia, industry partners and students, creating lasting partnerships critical to solving the STEM challenges of tomorrow.

**The workshops will include:**

* Lectures that connect the science, technology, engineering, and math aspects of these fields.
* Labs and classroom activities taught from the online [www.biobuilder.org](http://www.biobuilder.org/) resource and the BioBuilder textbook published by O’Reilly.
* Discussion with members of university research communities.
* Activities that address human practice questions such as the safety, security, economics and wisdom of engineering novel biological systems.
* Activities that address the nuts and bolts of running a BioBuilderClub or iGEM team.
* Attendees receive a copy of the BioBuilder textbook, all workshop classroom materials in ready to use formats, lunch each day, and a certificate of completion.

**Who should apply?**

High school Biology and STEM teachers, college-level instructors, Science Club leaders, and anyone looking for ways to bring cutting-edge content to students with a variety of interests from math to biology to electronics, are all encouraged to attend!

**How to apply?**

 [Registration and additional information online.](https://biobuilder.org/program/workshops/)

Tuition is $400 ($450 for CA) when registered by April 1st; $500 ($550 for CA) after April 1st. Scholarships are available.

Questions: please email Carla, Director of Operations: carla@biobuilder.org



*The BioBuilder Educational Foundation is a 501(c)3 organization. Donations are tax-deductible and all proceeds go directly to funding the foundation’s programs and materials.*