



2023 Champions *for* Biotechnology Education

Massachusetts Biotechnology Education Foundation

8th Annual Awards Gala
October 26, 2023 • 6:30pm — 9:30pm
Museum of Science • Boston

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MassBioEd
MASSACHUSETTS BIOTECHNOLOGY EDUCATION FOUNDATION



2023 Champions for Biotechnology Education

About MassBioEd

Massachusetts Biotechnology Education Foundation (MassBioEd) is a non-profit organization working to build a strong and diverse life sciences workforce. Our mission is twofold - to develop talent to support our industry and to open doors and create new opportunities for those who have historically been left out.

Our programs begin with our BioTeach program that provides teachers in middle and high schools with skills and resources to bring cutting-edge science curricula and labs into the classroom and introduces students to the variety of opportunities in our life sciences companies.

We continue this work with higher education students and adults by providing career information and connecting them with internships and job opportunities. Our unique Life Sciences Apprenticeship Program provides direct, streamlined training for adults to move into new careers in the industry.

Our programs support the emerging, imminent, and incumbent workforce:



EMERGING WORKFORCE

Engaging educators, inspiring
students grades 6-12

Teacher Training and
Mentoring

Curriculum Development

Career Exploration

Comprehensive District
Partnerships



IMMINENT WORKFORCE

Illuminating careers for
college students and adults.

Career Resources

College to Career

Career Hub

Apprenticeships



INCUMBENT WORKFORCE

Building skills of the
current workforce.

Incumbent Worker
Training

Life Sciences Workforce
Conference

Labor Trends Report

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2023 Champions for Biotechnology Education

Agenda

Networking and Refreshments

Welcome

Sunny Schwartz, Chief Executive Officer, MassBioEd

Apprentice Spotlight

Kelvin Manu

Champion Public Advocate

Mayor Michelle Wu

City of Boston

Champion Organization

Cummings Foundation

Champion Student

& Henri A. Termeer Student Scholarship Awardee

Genesis Gonzalez

Cambridge Rindge and Latin High School

Champion Educator

& Henri A. Termeer Educator Grant Awardee

Julia Buben

Teacher, North Quincy High School

Closing Remarks

Kristin Goppel, Vice Chair, MassBioEd Board of Directors

Networking and Dessert

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Mayor Michelle Wu *City of Boston*

CHAMPION PUBLIC ADVOCATE

Mayor Michelle Wu was first elected to the Boston City Council in 2013. She was the first Asian-American woman to serve on the council and served as council president from 2016-2018. In 2021, she was elected Mayor of the City of Boston and is the first woman, first person of color and first Asian-American to serve as the Mayor of Boston. Mayor Wu's mission is to build a more equitable and inclusive economy and her initiatives are focused on expanding access to careers for underserved and underrepresented Boston residents.

Mayor Wu is a strong advocate for building partnerships between local industries, educators and the community. Her new Life Sciences Workforce Initiative developed with support from the Bloomberg Harvard City Leadership Initiative, highlights her commitment to the growth of the local life sciences industry, maintaining the City's position as a global hub for life sciences and expanding access for underserved and underrepresented Boston residents. The city has committed millions of dollars to training, education and career outreach with the goal of helping 1000+ Boston residents, particularly those without a college degree, start careers in the life sciences and participate in the industry's growth.

In addition, Mayor Wu has established Boston's first-ever Offices of Early Childhood, Food Justice, Black Male Advancement, LGBTQ+ Advancement, and Worker Empowerment. Together, these achievements align Boston's climate, infrastructure, education, and investment strategies with Boston's values, laying the foundation for a greener, more efficient, more equitable city for generations to come.

Mayor Wu is an alumna of the Rappaport Fellows Program in Law and Public Policy, the recipient of the Massachusetts Democratic Party's Franklin and Eleanor Roosevelt Award and was named one of The Boston Globe's 2021 Bostonians of the Year. She is a graduate of Harvard University and Harvard Law School.



Throughout the course of history, Boston has been home for big ideas that can change the world. From democracy to education, human rights to health care, we continue to lead the way as the best place to raise a family and shape the future. My goal is to make Boston the best place in the world to start and grow a life sciences company—to bring even more life-saving innovations and opportunities to life and to connect these companies with the talented workforce that lives in our city. I am honored to be recognized by MassBioEd and look forward to continuing to work with them to build a strong, diverse workforce to support the growth of the life sciences.

Mayor Michelle Wu

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Cummings Foundation

CHAMPION ORGANIZATION

Cummings Foundation, based in Woburn, Massachusetts, was founded in 1986 by Bill and Joyce Cummings of Winchester. One of the largest private foundations in New England, Cummings Foundation has awarded nearly \$500 million to date to nonprofits based primarily in greater Boston. The Cummings \$30 Million Grant Program awards \$30 million annually to 150 nonprofits based in and serving Middlesex, Essex, Suffolk counties, and select Norfolk County communities. A meaningful percentage of the Foundation's more than \$3 billion in assets is in the form of commercial real estate serving 2,000 clients including 150 life sciences and medical device firms, operated on a pro bono basis by Cummings Properties, which Bill Cummings founded more than 50 years ago. One hundred percent of rental profits go to the Foundation for philanthropic purposes.

Through its ongoing commitment to education, Cummings Foundation has funded numerous science education-based organizations, institutions, and programs, including a major donation to the Benjamin Franklin Institute of Technology, rebranded to Franklin Cummings Tech, to help educate students who are typically underrepresented in higher education. We honor Cummings Foundation for its long-standing support of the life sciences and STEM education in the community. Cummings Foundation has been a proud partner of MassBioEd since 2013 as a funder of our BioTeach program, supporting the teacher training institute, ongoing in-school teacher support and biotech lab-based experiential learning for schools and students.



Cummings Foundation is honored to be recognized by MassBioEd for our organization's support of STEM and biotechnology education. Such support is essential to developing the life sciences workforce of the future. We are so pleased to contribute to this endeavor thanks, in large part, to the more than 2,000 clients that lease with Cummings Properties and the 150 community volunteers who administer our annual Cummings \$30 Million Grant Program.

Joyce Vyriotes, Executive Director, Cummings Foundation, Woburn, MA

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Genesis Gonzalez

*Cambridge Rindge and Latin
High School*

**CHAMPION STUDENT & HENRI A. TERMEER
STUDENT SCHOLARSHIP AWARDEE**

Genesis Gonzalez, or as others call her Genda, is a senior at the Cambridge Rindge and Latin High School. Her goal is to study microbiology, biotech or health sciences. Genesis has spent the last 6 years immersing herself in the field of STEM by participating in minority-focused programs at MIT known as MITES, and the LEAH Knox Scholars program, MedScience at Harvard Medical School and this past summer was an intern in MassBioEd's Student Summer Internship program. Genesis takes pride in her Afro-Latina culture and enjoys taking on leadership roles. She is Captain of her Division 1 swim team, and is passionate about encouraging girls in STEM. She strives to lead by example and inspire others.



As the world changes quickly, there is still much work to get done. Using this scholarship I'm prepared to be a voice for the future, and a role model to other women interested in the world of STEM. Growing up, I never had much encouragement from my educators, but standing here today receiving this award I take a step forward into becoming the student, and scientist, I'm certain any college would be lucky to have. Science has always interested me because it propels society through its innovations, but more importantly because it provides me with the opportunity to work towards something bigger than myself. I've only just begun my journey through STEM, and I'm eager to see where the path leads me in the future.

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Julia Buben *North Quincy High School*

**CHAMPION EDUCATOR & HENRI A.
TERMEER EDUCATOR GRANT AWARDEE**

Julia Buben is in her fourth year teaching science at North Quincy High School. She is a 2020 graduate of Boston College, where she earned her Bachelor of Science in biology and earned the Excellence in Secondary Education Teaching award for her work during her undergraduate student teaching experience. Julia's passion for expanding access to biotechnology education in schools was ignited in 2018 when she attended MassBioEd's Summer Institute. In 2021, she took her advocacy a step further by initiating efforts to introduce a biotechnology course at her school.

After receiving a Massachusetts Life Sciences Center grant to start up her course, Julia began teaching biotechnology at North Quincy High School in 2022. She also began supporting the science teachers at her school in incorporating biotechnology into their life sciences courses. This summer, she pioneered an early-college summer academy biotechnology course at Quincy College aiming to offer more high school students in the district access to this valuable educational experience.

Julia's firm belief in exposing all students to biotechnology during their secondary education drives her commitment to expanding awareness of diverse STEM careers and fostering a sense of belonging among students in the field of science. Looking ahead, she is excited to further enhance her curriculum, by integrating inquiry-based learning that incorporates biotechnology across all science classrooms at her school.



I intend to use this grant to advance my biotechnology knowledge by attending continuing education courses such as the programs offered at the National Science Teaching Association conference and graduate-level biotechnology courses at local universities.

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