

# Building a Talented Regional Workforce to Sustain a World-class Life Sciences Industry



## About MassBioEd



MassBioEd's mission is to build a sustainable life sciences workforce in the region through educational programs that inspire and propel students, engage and excite teachers, and illuminate the pathway from the classroom to careers.

Our flagship program, BioTeach, provides teachers with the skills to implement innovative life sciences labs and develop cutting-edge curricula to offer students creative, fun, and compelling lab experiences that inspire scientific curiosity.

By introducing authentic labs into the classroom, we provide students with crucial skills and insight into the life sciences industry. We build on students' classroom experiences through our college and career exploration programs. Thanks to

support from our partners, BioTeach programs are free to public school teachers and students.

Through job trend analyses, we provide a deep understanding of the industry's workforce needs and the skills required to ensure a robust pipeline of scientists, technicians, and other professionals. Beyond data analysis, we work closely with industry and academia to illuminate pathways into the life sciences across all sectors.

Our annual Life Sciences Workforce conference advances educational alignment with workforce needs.

Industry trend reports are free on-line.



## How You Can Support Life Sciences & Career Education

- Host Students At Your Company
- Volunteer To Speak In A Classroom
- Join The Skills Or Academic Advisory Group
- Make A Tax-Deductible Donation

Learn more at [MassBioEd.org/Get\\_Involved](https://www.massbioed.org/Get_Involved)

# Our Programs



## Engaging Educators



Teachers are the greatest resource in inspiring student curiosity and igniting student interest in life sciences. BioTeach workshops help middle and high school teachers launch and expand lab-centered, inquiry-based life sciences curricula in their classrooms. BioTeach assists teachers with concept and content acquisition, curriculum design, and execution of activities in the classroom. In the 2018-19 school year, 99% of the 210 teachers who participated in workshops reported implementing BioTeach inspired-labs into their classrooms. These teachers represented 112 schools and, in turn, provided an estimated 12,000 students with authentic lab experiences.

BioTeach Training Grant Programs supply equipment and consumables to public schools to ensure equal access for all teachers to the resources needed to implement BioTeach-inspired curricula. Through in school mentoring, our programs aid novice and veteran science teachers alike in overcoming the anxiety of adding new technologies and lab-based curricula.

## Inspiring Students



BioTeach extends student learning through college and career exploration events to expand awareness and understanding of the opportunities available in college science programs and the variety of careers that exist within the life sciences industry. At Career Exploration Days, students network with employees in a wide range of occupations at life sciences companies in Massachusetts, while Biotech Futures events promote interaction with faculty and college students at regional universities. Our Career Ambassadors program brings industry professionals into classrooms, where students can hear first-hand descriptions of what it is like to work in scientific research and other professions that support this industry. In the 2018-19 school year, 92% of 1082 students who participated in these events reported an increased interest in pursuing a career in the life sciences.

## Illuminating Pathways



The Commonwealth's higher education sector plays a critical role in the growth and success of all life sciences companies. MassBioEd recognizes that future success of the industry depends on colleges and universities receiving accurate information regarding industry developments, expectations for employees, employer needs, and projected hiring trends. MassBioEd is committed to facilitating dialogue between educators and industry to assure that curricula are aligned with workplace knowledge, skill, and performance expectations. Through its on-going job trends research, MassBioEd delivers regular reports to provide clarity to educators and industry on evolving workforce needs. The research draws from the most relevant data available on hiring trends in the industry and the resulting analyses are free at [MassBioEd.org/Job\\_Trends](https://www.massbioed.org/Job_Trends).