

Consider a career in the life sciences!



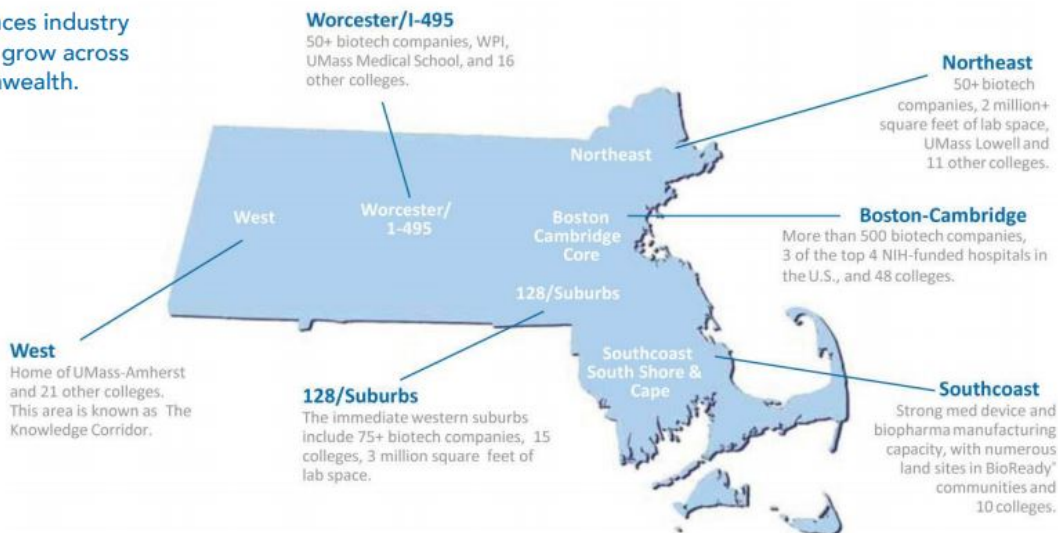
- Do you like to solve problems?
- Do you want to help people?
- No matter what kind of career you might want, there are many opportunities in the life sciences.

In Massachusetts, there are **74,000 people** employed in the life sciences.

Some work in college or hospital laboratories; most work in companies.

By 2024, this number should reach 86,000 - We will need 12,000 new people to fill these jobs.
Will you be one of them?

The life sciences industry continues to grow across the Commonwealth.



How can you start planning for a career in this field?

- Take extra science and math courses at your high school or community college. There are also many excellent online classes to choose from.
- Get experience working in a real lab. Contact professors at a local college or university and ask about summer internships or after school jobs. Download a list of local internship opportunities from MassBioEd's website: <https://www.massbioed.org/events/480-internship-resources>
- Apply for a high school apprenticeship position through the Massachusetts Life Sciences Center masslifesciences.com/programs/hsapprenticeship



There are many different types of jobs available in the life sciences.

See more career descriptions & resources at massbioed.org/career_pathways

Career Path	Projected Growth Through 2026	Preparation Needed	Annual Salary Range (hourly rate)
Animal Care Technician	20%	High School or A.S.	\$30,000 - \$50,000 (\$15 - \$25)
Feeds and cares for animals in a hospital or research laboratory. They need to pay close attention to animals' well-being and carefully report on what they see.			
Biomanufacturing Technician	15%	A.S. or Certificate	\$35,000 - \$45,000 (\$17 - \$22)
Helps bring crucial and complex products from the lab to patients. Can work upstream (monitoring live cells that produce medicines or other useful compounds) or downstream (purifies products made by living cells).			
Scientific Technician	11%	A.S. or B.S.	\$40,000 - \$70,000 (\$19 - \$35)
Helps scientists by ordering supplies, maintaining equipment, growing cells, and preparing solutions that are used routinely. With experience, technicians can take on more responsibility and gain independence.			
Chemical Engineer	9%	B.S. or M.S.	\$80,000 - \$150,000 (\$38 - \$75)
Designs chemical processes by which drugs or other sophisticated chemicals are made. They can help design the machinery that these chemical processes take place in.			
Software Developer	25%	B.S. or M.S.	\$80,000 - \$150,000 (\$38 - \$75)
Designs programs, writes code, and can work with scientists to customize programs specifically designed for chemical or biomedical applications.			
Biological Research Scientist	13%	B.S., M.S., or Ph.D.	\$50,000 - \$200,000 (\$25 - \$96)
Solves important problems by learning about the body and what changes occur when a person becomes sick. They use this knowledge to design new treatments for disease.			
Chemist or Materials Scientist	10%	B.S., M.S., or Ph.D.	\$50,000 - \$180,000 (\$25 - \$90)
Analyzes components of biological substances to better understand how biomolecules interact with cells. They design novel molecules that might eventually become new drugs.			
Clinical Trial Professional	13%	B.S., M.S., or Ph.D.	\$50,000 - \$190,000 (\$25 - \$95)
Works with the physicians and patients who volunteer to test new drugs and medical devices. They are responsible for documenting trial results and reporting them to the Food & Drug Administration (FDA).			
Mathematician or Statistician	34%	B.S., M.S., or Ph.D.	\$60,000 - \$165,000 (\$30 - \$82)
Translates data generated through basic and clinical research into useful, understandable information. They have advanced training in statistical analysis.			

*Click on each career path title to access additional information.

- A.S. Associate's Degree – Typically earned at a community college over two – four years, full or part time.
- B.S. Bachelor's Degree – Earned at a college or university over four years, if full time or longer if part time. Often employers will pay for courses related to your work.
- M.S. Master's Degree – Once a Bachelor's Degree is obtained, Master's degrees take two to three years to complete if full time, or longer if part time. Often employers will pay for you to take courses related to your work.
- Ph.D. Doctor of Philosophy – Once a Bachelor's Degree is obtained, a Ph.D. takes another five to seven years to achieve, which includes some formal classes but mostly encompasses doing independent research. In science, getting a Ph.D. is free, and you will be paid for working on your project.

