

15 Biotechnology Career Posters

All include a short definition, brief description, education required, average salary, and pictures.

Clinical technician

processes samples and reports results

Clinical technicians operate in laboratory environments. They handle biological specimens, establish suitable testing conditions, help maintain the lab equipment, and ensure that the safety rules are upheld during tests and experiments. If any incidents or operational incidents arise, they report these issues as well. They communicate results with detailed lab reports.

Education Needed:
They typically need an associate degree or bachelor's degree in the focus area.

Average Salary: \$48,000 per year



Clinical research Associate

helps conduct clinical research and trials

They work with pharmaceutical companies, contact research organizations, or academic institutions. They make sure that clinical trials and research run smoothly. They help make sure that everything is safe and follows government regulations. They make sure that patients are safe, which is their top priority. They also collaborate with researchers, sponsors, and government agencies.

Education Needed:

Biochemist

studies and manipulates the chemical processes of living organisms

They study DNA, proteins, and cell parts. They use their knowledge and skills to develop things such as medical products (medicines and vaccines) and genetically modified organisms (GMOs). They also work to improve the processes of creating these things. The work they do helps to better treat diseases, create better crops, and protect our environment.

Education Needed:
They usually have a bachelor's degree in biology, chemistry, or engineering.

Average Salary: \$95,000 per year



Environmental Biotechnologist

applies biotechnology to address environmental issues and challenges

They help create a more sustainable and safer environment. Some of these processes include converting plant biomass into biofuels and using living things, such as bacteria and fungi, to treat soil and pollution. They also look at ways to turn waste into useful things such as renewable energy! They can work with federal agencies and private companies.

Education Needed:
They need a bachelor's degree in environmental science, biology, or related field. Many pursue advanced degrees.

Average Salary: \$72,000 per year



Microbiologist

studies microorganisms for applications in the field

Education Needed:
The minimum education is a bachelor's degree in microbiology.

Average Salary: \$75,000 per year



Military engineering, science, and technical Officer

applies biotechnology for military-related applications

Their responsibilities may vary depending on what branch of the military they are in. They may look at biothreat and biological warfare risks. They may also research toxin effects on the human body. They may collaborate with other military units.

Education Needed:
Many have a bachelor's degree in a biotechnology related field (possibly an advanced degree). They must also have extensive military training.

Average Salary: \$117,000 per year



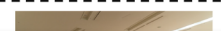
Biotechnology educator

educates others about biotechnology

Secondary teachers and biotechnology professors help teach students about the field of biotechnology. They plan and teach lessons, grade papers, and mentor students. College professors may also spend time conducting biotechnology research and supervising student projects. Students about topics such as DNA engineering, and biotechnology applications.

Education Needed:
Secondary teachers need a teaching certification or licensure, and professors may hold a Ph.D. in their field of expertise.

Average Salary: \$70,000 per year



Biomedical Engineer

designs medical devices and technologies

They create designs to improve healthcare. Some of the things they design include artificial organs, kidney dialysis, pacemakers, biosensors, medical imaging devices, cochlear implants, and more. They collaborate with healthcare professionals, researchers, and industry experts to strive for greater healthcare outcomes and innovative solutions to advance the field of medicine.

Education Needed:
They usually have a bachelor's degree in a biomedical engineering. Research roles require graduate degrees.

Average Salary: \$85,000 per year



Food Scientist

genetically modifies food

To obtain desirable food traits, food scientists genetically modify food. They work on creating food with more appealing qualities, longer shelf lives, and make sure they meet appropriate safety standards. They make new products as well as improve existing ones. They may develop new flavors, improve the textures, add more vitamins, and ensure consistency in products.

Education Needed:
They may have food science or research roles opportunities to advance.

Average Salary: \$70,000 per year



Forensic science technician

analyzes criminal evidence

They help law enforcement and crime scene investigators with criminal investigations by collecting, analyzing, and interpreting evidence from crime scenes. They look at evidence such as fingerprints, clothing, and other items. This will help to identify suspects, clear the victims, and help justice to be served. They are required to report their findings and testify in court.

Education Needed:
Most have at least a bachelor's degree in forensic science or related field. Many have specialized training as well.

Average Salary: \$59,000 per year



Animal Care

cares for laboratory animals

They take care of laboratory animals used in research. The most common animals that are used in research include mice and rats. Other animals are used such as frogs, fish, rabbits, monkeys, hamsters, and sheep. They feed, water, groom, and monitor their overall health. Their main role is to make sure that the animals are healthy during experiments. They assist scientists.



DNA Analyst

DNA analysts analyze samples of DNA to gather information. They use this information at family reunions, legal historical law enforcement suspects, and use specialized software to analyze and interpret the DNA data. Some examples include sequence alignments, gene annotations, and phylogenetic analyses.



BIOTECHNOLOGY careers Gallery Walk

Name _____

Date _____

career	short+ definition	1 interesting fact	education needed	average salary

**An answer
key is
included!**