



# LA Mission College Career Center

## BIOTECHNOLOGY

### MAJOR SHEETS

#### SKILLS

(things you will learn or use)

- Knowledge of scientific principles and research techniques
- Knowledge of the operation of laboratory, field, and testing equipment
- Familiarity with computers, computer software, and documentation.

#### INTEREST

- Processes of a scientific nature
- Do precise work with tools, instruments, or equipment
- Make decisions based on data and experience
- Work to meet set standards and according to procedures

#### WHAT IS BIOTECHNOLOGY?

Biotechnology is a science that uses living organisms, cells, or biological processes to create new products and technologies that benefit human health, agriculture, industry, and the environment. It combines biology with engineering and other technologies, such as genetic engineering, to manipulate cells and their genetic material. Biotechnology continues to evolve with modern advancements like gene therapy and biofuel production. Depending on their educational background and professional interests, biotechnologists can work as forensic science technicians, food technologists, and research associates. biotechnology includes positions in: research and development, regulatory affairs and quality assurance, manufacturing, and policy making. Many biotechnologists work in a laboratory setting assisting scientists and doctors with different types of research. They maintain lab equipment, synthesize chemicals, assist with experiments, and produce reports of their findings. Some biotechnologists go out in the field to collect data.

#### LAMC DEGREES & CERTIFICATES OFFERED

- **Bachelors of Science in Biomanufacturing**
- **Associate of Science in Biotechnology**
- **Certificate of Achievement in Biotechnology Lab Assistant**
- **Certificate of Achievement in Biotechnology Research Lab Assistant**
- **Certificate of Achievement in Cell and Gene Therapy**

#### TRANSFER RELATED MAJORS

- **CSPU Pomona:** Biotechnology BS degree
- **CSU Northridge:** Biology BS degree - Option in Biotechnology/Medical Technology
- **UC Davis:** Biotechnology BS degree



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#### WORK ENVIRONMENT

- Work is done in sterile, well-equipped and staffed laboratories
- Hazards may be present when handling clinical specimens, and safety equipment may be worn to protect workers' health
- Overtime and weekend work may be required for emergencies and for seasonal activities in agriculture, food and wine processing

#### WEBSITE RESOURCES

[www.lamission.edu/careercenter](http://www.lamission.edu/careercenter)  
<https://www.lamission.edu/Allied-Health/Biotechnology-Certificate/Home.aspx>  
[www.assist.org](http://www.assist.org)  
[www.salary.com](http://www.salary.com)  
<https://uncw.edu/career/whatcanidowithamajorin.html>  
[www.cacareerzone.org](http://www.cacareerzone.org)  
<http://degrees.calstate.edu/>  
[https://admission.universityofcalifornia.edu/counselors/files/undergraduate\\_majors\\_list.pdf](https://admission.universityofcalifornia.edu/counselors/files/undergraduate_majors_list.pdf)

This general information is provided by the LA Mission College Career Center. For specific information about majors and careers please email us to make an appointment at [careercenter@lamission.edu](mailto:careercenter@lamission.edu)

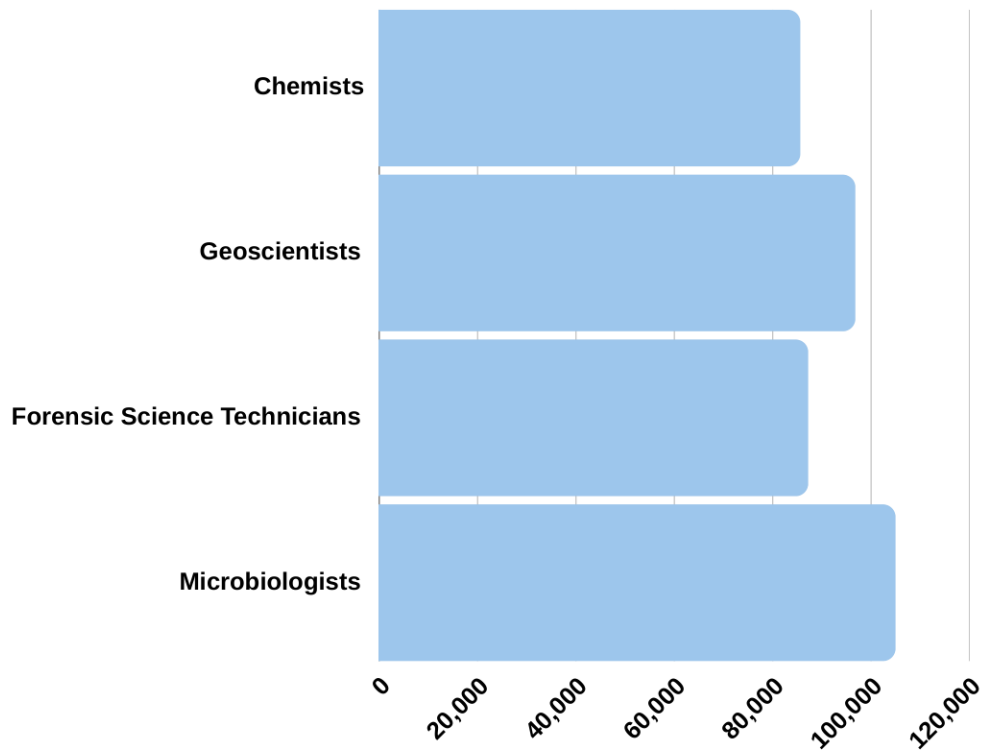
#### POTENTIAL JOB TITLES

- Biotechnologist
- Chemists
- Geoscientists
- Forensic science technicians
- Microbiologists
- Food scientist
- Medical Technologists
- Science Technicians
- Nuclear Technician
- Bioprocess Engineer
- Biostatistician
- Geneticist
- Biomedical Engineer

#### POTENTIAL EMPLOYERS

- Hospitality
- College/Universities
- Medical Labs
- Food Inspections Sectors
- Clinics
- Pharmacies
- Medical Research Organizations
- Department of Social Services

#### \*EARNINGS



\*Earning can vary by occupation and experience. The following are average annual wages as of 2019 in California based on California Career Zone <https://www.cacareerzone.org/>