

# BIOTECHNOLOGY

Biotechnology is the branch of applied science that uses living organisms and their derivatives to produce products and processes. These products and processes feature in healthcare, medicine, biofuels, and environmental safety.

“The world is dealing with several issues, such as pandemics, climate change, and environmental degradation, all of which call for creative solutions to lessen their effects. The multidisciplinary discipline of biotechnology, which blends engineering, chemistry, and biology, has become an effective instrument for addressing these issues. Interventions led by biotechnology have the power to transform several sectors, including healthcare, agriculture, and environmental preservation, and they can offer long-term fixes for present issues.”

– Institute of Life Science: [Innovations and Solutions of Current Problems by Biotechnology-Driven Interventions](#). September 2024

## Representative Industry Occupations



### Lab-Based R&D

Lab Technician (Medical Device)	\$ 55,000–82,000	AS
Lab Technician (Medical)	\$ 50,000–79,000	AS
Biomedical Engineer (entry)	\$ 80,000–113,000	BS
Chemist/Biochemist	\$ 85,000–120,000	BA/MS



### Regulatory Affairs

Regulatory Affairs Specialist	\$ 78,000–123,000	BS + Cert
Regulatory Affairs Manager	\$ 141,000–212,000	BS/MS + Cert



### Clinical Trials

Clinical Research Associate	\$ 74,000–96,000	BS
Clinical Trials Administrator	\$ 74,000–96,000	BS



### Production

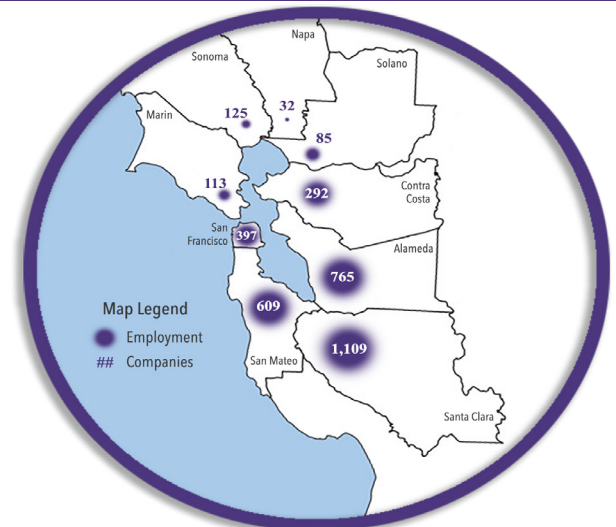
Process Technician	\$ 46,000–59,000	HS
Manufacturing Technician	\$ 47,000–72,000	HS
Manufacturing Engineer	\$ 93,000–114,000	BS
Process Engineer	\$ 94,000–115,000	BS
Quality Control	\$ 46,000–86,000	BS
Validation Engineer	\$ 71,000–129,000	BS



### Sales

Sales Representative (Pharmac.)	\$ 109,000–133,000 (commissions included)	BS
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## Biotechnology Concentration — San Francisco Bay Area



## Career Advisor Corner

We're in a very different place than we were five years ago, or even three years ago. . . from our ability to harness AI to make advances [in biotech/pharma]. . . development is actually accelerating.

Bioscience backgrounds are highly favored. You should demonstrate your knowledge of life sciences if your educational background is unrelated.

# BIOTECHNOLOGY IN THE SAN FRANCISCO BAY AREA

## Top Regional Companies

Company	City	Company	City
AbbVie	South San Francisco	Genentech	South San Francisco
Amgen	South San Francisco	Gilead Science	Foster City
Beigene USA	San Carlos	Grail	Menlo Park
BridgeBio Pharma	Palo Alto	Illumina	Foster City
Bristol Myers Squibb	Brisbane	Jazz Pharmaceuticals	Palo Alto
CareDX	Brisbane	Karius	Redwood City
Cepheid	Sunnyvale	Maze Therapeutics	South San Francisco
Ceribell	Sunnyvale	Procept BioRobotics	Redwood City
Codexis	Redwood City	ReCode Therapeutics	Menlo Park
Corcept Therapeutics	Redwood City	Sight Sciences	Redwood City
Cytokinetics	South San Francisco	Thermo Fisher Scientific	South San Francisco
Cytovale	South San Francisco	Vaxcyte	San Carlos
DNAnexus	Mountain View		

“Biotech’s underlying innovation engine remains robust; the pharmaceutical ecosystem’s innovation engines are still thriving, as new modalities and exciting scientific innovations continue to drive the sector forward. While many emerging biotechs are still struggling, there are positive signs of a thaw in the financing and dealmaking environment for the biotech industry.”

– Beyond Borders: EY’s Biotechnology Report 2024

## Relevant Industry Reports

- [2024 Life Science Economic Impact Report](#)
- [2024 Life Science Market Report](#)
- [2023 Life Science Workforce Trends Report](#)
- [Beyond Borders: EY Biotechnology Report 2024](#)

## Staffing Agencies

- Aerotek  
[www.aerotek.com](http://www.aerotek.com)
- Kelly Science, Engineering and Technology  
[set.kellyservices.us/](http://set.kellyservices.us/)
- EPM Scientific  
[www.epmscientific.com/](http://www.epmscientific.com/)
- Talentburst  
[talentburst.com/life-sciences](http://talentburst.com/life-sciences)
- Epic Staffing  
<https://epicstaffinggroup.com/>

## Top Job Boards

- Biocom California Institute  
[careerhub.biocom.org/jobs](http://careerhub.biocom.org/jobs)
- BioSpace  
[www.biospace.com/jobs](http://www.biospace.com/jobs)
- Life Sciences Jobs  
[www.califesciences.org](http://www.califesciences.org)

## Professional Associations & Networking Groups

- Association for Women in Science - East Bay Chapter  
[www.awis.org/](http://www.awis.org/)
- Bay Area Biomedical Device Conference  
[qb3.org/](http://qb3.org/)
- Bio2Device  
[bio2devicegroup.org](http://bio2devicegroup.org)
- Biocom California Institute  
[www.biocominstitute.org](http://www.biocominstitute.org)
- Biotechnology Innovation Organization  
[www.bio.org/](http://www.bio.org/)
- California Life Science Association (CLSA)  
[califesciences.org/bio](http://califesciences.org/bio)
- Clinical & Laboratory Standards Institute (CLSI)  
[clsi.org](http://clsi.org)
- MedTech Women  
[medtechwomen.org/](http://medtechwomen.org/)
- Women in Bio (WIB)  
[www.womeninbio.org/page/SF](http://www.womeninbio.org/page/SF)

## Events/Conferences

- California Life Science Association (CLSA)  
[www.califesciences.org/event-list-page/](http://www.califesciences.org/event-list-page/)
- Biotech Showcase  
[informaconnect.com/biotech-showcase/](http://informaconnect.com/biotech-showcase/)
- Fierce Bioetech  
[jobs.fiercebiotech.com](http://jobs.fiercebiotech.com)

## Certificates / Training Opportunities

Biotechnology	Regulatory Affairs & Compliance
Bioinformatics	Multiple modules & certificates
Medical Device	Medical Device
Regulatory Affairs	Drug & Biologics
Medical Device	

