

WHAT CAN I DO WITH MY TRANSLATIONAL LIFE SCIENCE TECHNOLOGY DEGREE?



Using the Major Sheet:

- Large headings indicate **industry** area and subheadings indicate **employers** within that area.
- Use the titles to search for careers and related careers in order to explore your options within different areas of industry. Note that some career titles have multiple names for similar positions.
- An asterisk (*) notes that additional training (certification, graduate school, high level of experience) may be needed in order to obtain this career. Make sure to thoroughly research career pathways.

BIOTECHNOLOGY

Pharmaceutical Companies, Medical Device Companies, Contract Research Organizations

Research & Development

- | | | |
|---------------------------------|---------------------------------|-------------------------|
| • Genetic Engineer | • Validation Scientist | • Formulation Scientist |
| • Assay Developer | • Process Development Scientist | • Computer Modeler |
| • Computer Programmer | • Bioinformatics Specialist | • Product Developer |
| • Forensic Biological Scientist | • Molecular Microbiologist | • Biotechnologist |
| • Biostatistician | • Chemistry Technologist | • Product Researcher |
| • Biologist | • Research Scientist | • Bioinformatician |
| • Biomedical Chemist | | |

Quality Systems

- | | | |
|---------------------------------------|-------------------------------|-------------------------|
| • Quality Assurance/Control Scientist | • Quality Control Chemist | • Quality Documentation |
| • Quality Assurance Auditor | • Process Validation Engineer | |

Clinical Studies

- | | | |
|-------------------------------|------------------------|----------------------------|
| • Clinical Research Associate | • Clinical Coordinator | • Clinical Data Specialist |
| • Clinical Data Programmer | | |

Manufacturing & Distribution

- | | | |
|----------------------------------|--|--------------------------|
| • Process Development Technician | • Automation Engineer | • Manufacturing Research |
| • Environmental Health & Safety | • Product Production Planner & Scheduler | |

Sales & Technical Support

- | | | |
|------------------------|---------------------|---------------------|
| • Sales Representative | • Marketing Analyst | • Marketing Manager |
| • Product Manager | | |

Other/Cross-Cutting Roles

- | | | |
|-----------------------|----------------|-------------------|
| • Systems Analyst | • Data Analyst | • Biostatistician |
| • Data Manager | • Patent Agent | • Lobbyist |
| • Technology Transfer | | |

GOVERNMENT

NIH, FDA, USDA, DoD

Research

- | | | |
|--|--------------------------------------|-------------------|
| • Research Analyst | • Policy Analyst | • Program Analyst |
| • Research Manager | • Policy Manager | • Program Manager |
| • Basic Science Research Assistant | • Applied Science Research Assistant | |
| • Translational Science Research Assistant | | |

Other

- | | | |
|----------------|---------------------|-----------------------|
| • FDA Reviewer | • Inspector/Auditor | • Congressional Staff |
|----------------|---------------------|-----------------------|

EDUCATION

Colleges and Universities, Industrial Firms, Research Institutes, Government Labs

- Translational Science Researcher
- Research Scientist
- Educational Programs Manager
- Technology Transfer Specialist
- Public Health Educator
- Bioinformatics Professor
- Incubator Coordinator
- Mathematician

HEALTHCARE

- Medical Research Technician
- Biomedical Equipment Technician
- Biomedical Engineer
- Public Health/Infection Control
- Healthcare Scientist
- Phylogenitist
- Gene Analyst
- Pathologist
- Virologist
- Medical Lab Technician
- Medical Technologist
- Biomedical Scientist
- Medical Writer
- Proteomic Specialist
- Pharmacologist
- Protein Analyst
- Cheminformatician
- Cytotechnologist
- Clinical Lab Specialist
- Genetic Researcher
- Geneticist
- Pharmacogenomicist
- Anatomist
- Scientific Curator
- Pharmacogenetician

PREPROFESSIONAL PREPARATION

Prepares for Graduate Programs in:

- Management
- Math
- Dentistry
- Business
- Science
- Nursing
- Law
- Medicine

Preparation for a Competitive Job Market:

- **Focus on transferable skill sets**, as you pursue a degree in Translational Life Science Technology
- **Obtain relevant internship, co-op, or volunteer experiences.**
- **Supplement TLST course work with classes** that are **relevant** to your career.
- **Meet with a Career Specialist** to explore options, make decisions, and prepare for career choices.

Additional Career Center Resources:

- **Major Sheets (BIOI, BIOL, BIOC, BTEC, MATH, MOCB):** <https://careers.umbc.edu/tools/majors/>

- **The Vault:** <https://careers2.umbc.edu/tools/vault/>

- Use the top search bar to find these relevant guides:

[“Vault Guide to Pharmaceuticals and Biotechnology Jobs”](#)

[“Vault Guide to Biology and Life Sciences Jobs”](#)

[“Vault Guide to Government Jobs”](#)

[“Vault Guide to Health Care Provider Jobs”](#)

[“Vault Guide to Dental Care Jobs”](#)

[“Vault Career Guide to Health Care Management”](#)

[“Vault Career Guide to Pharmaceuticals and Biotechnology”](#)

[“Vault Guide to Health Care and Pharmaceuticals Consulting Jobs”](#)

[“Vault Guide to Medical Equipment Manufacturing Jobs”](#)

- **Professional Associations:**

The International Society for Computational Biology: www.iscb.org

Society for Industrial Microbiology and Biotechnology: <https://www.simbhq.org/>

American Institute for Biological Sciences: <https://www.aibs.org/home/index.html>

- **Additional Resources:**

Bioinformatics.org: <http://www.bioinformatics.org/>

Health eCareers: <https://www.healthcareers.com/>

- **Professional/Graduate School Resources:**

UMBC PreMedical and PreDental Advising Office: <http://premed.umbc.edu/>

National Association of Graduate and Professional Students: <http://nagps.org/>