

## Biotechnology Career Research E-Project

**Background:** At a large biotechnology company like Genentech, Inc. there are over 8000 employees. The majority of them are scientific staff including scientists, research associates, and technicians. Most of these work in labs or manufacturing facilities.

Many employees at biotech companies though, serve in administrative or support roles. These include employees in public relations, accounting, computer services, human resources, library services, marketing, packaging, shipping, legal services, to name a few. Many positions are filled with clerks and administrative assistants. Biotechnology companies are looking for employees specifically trained to fill all these positions.

No matter whether a position is considered scientific or not, potential employees with training and experience in biotechnology will be more attractive to these companies.

**Purpose:** To demonstrate the wide-diversity of available biotechnology-related careers.  
To gather and share information about careers in biotechnology.

### Procedures:

1. Working singly or in pairs, pick a career that you'd like to investigate or your instructor will assign one. Start at <https://www.careeronestop.org/Toolkit/ACINet.aspx> to find a job title that interests you. Find and click on "Target Occupations" under the "Careers" list.
  - > Enter "bio" in the search bar and see the drop down list of some occupations in the area of bioscience/biotechnology. Pick "biological scientists" and then click on "Get Career Details." In your notebook record find things you found about biological scientist careers that you might not know or that are important to you.
  - > Go back to the "Target Occupations" page. Enter "bio" in the search bar and see the drop down list of some occupations in the area of bioscience/biotechnology. Pick "biological technicians" and then click on "Get Career Details." In your notebook record find things you found about biological scientist careers that you might not know or that are important to you.
  - > Go back to the "Target Occupations" page. Enter "bio" in the search bar and see the drop down list of some occupations in the area of bioscience/biotechnology. Pick "bioinformatics scientists" and then click on "Get Career Details." In your notebook record find things you found about biological scientist careers that you might not know or that are important to you.
  - > Go back to the "Target Occupations" page. Enter "bio" in the search bar and see the drop down list of some occupations in the area of bioscience/biotechnology. Pick "biomedical engineers" and then click on "Get Career Details." In your notebook record find things you found about biological scientist careers that you might not know or that are important to you.
  - > Go back to the "Target Occupations" page. Enter "bio" in the search bar and see the drop down list of some occupations in the area of bioscience/biotechnology. Pick "biochemical engineers" and then click on "Get Career Details." In your notebook record find things you found about biological scientist careers that you might not know or that are important to you.
2. Go to <https://biotech-careers.org/careers>. Pick to 3 career titles that interest you and compare their job descriptions, educational requirements and compensations (wages). Rank them from 1-3 with #1 being the most interesting to you. In 3-4 sentences, discuss why you ranked the careers the way you did. In another few sentences, describe a career that might not be on this webpage's list of careers. Maybe one you found in #1, above or on another webpage such as <https://www.learnhowtobecome.org/science-technology-careers/biotechnology/> or in one of the videos on <https://www.biotech-careers.org/videos> or <http://www.aboutbioscience.org/category/careers/>.

3. Oral/Mini-Poster Presentation – Prepare an 11x17” mini poster that describes the job duties, skills, training, education, and the pros and cons of the biotech career you studied and could be interested in. Share the mini-poster with the class in an oral presentation of 3-4 minutes. Your poster should include:
- Career Title
  - Job duties (may be a typical day in the life)
  - Training and educational requirements of the profession
  - Pros and cons of career
  - Any other interesting other interesting information collected
  - Pictures/photos/diagrams should be included on the poster.
  - A company that would employ a professional of this type (name, title, company, address, website) should also be on the poster.
  - The URLs of the references used.

Ellyn Daugherty, Biotechnology: Science for the New Millennium, 2018