

# Lesson - Looking into a Career in Biotechnology Research and Development

## LEARN: Scavenger Hunt

30-90 minutes

### Purpose:

The purpose of this activity is to have participants work in pairs to discover various facts about the careers in the biotechnology research and development pathway. Each pair will share their findings to enable others to learn more about these interesting occupations.

### Materials:

- Library and internet access
- *Biotechnology R&D Scavenger Hunt* handout
- *Biotechnology R&D Sample List of Occupations*

### Facilitation Steps:

1. Give students the *Biotechnology Research and Development Scavenger Hunt* handout.
2. Divide the class into pairs of students. Depending on the number of students, assign each pair one occupation within the biotechnology research and development pathway to research until all questions have been answered or as many as possible in the time given. Give each pair the *Biotechnology R&D Sample List of Occupations* to choose occupations from.
3. Give students 10-15 minutes on the internet to research and find answers to the questions. Students should write down the answers and be ready to share them.
4. Call the class back together. Have each pair share the results of their research.

# Biotechnology R&D Scavenger Hunt

Each pair should be assigned one biotechnology-related occupation to research. Do your research on-line to find the answers to the questions you have been given below. Good Luck! Possible sources to consider could Bureau of Labor Statistics website, Occupational Outlook Handbook website, college websites from biotech programs, other career-related websites on the internet.

Occupation assigned: \_\_\_\_\_

1. Define this occupation. What is it? Give a short description.
2. What degree or education and training is required?
3. What licenses or certifications are required, if any?
4. What is the average length of time it takes to complete training or earn degrees?
5. What is the average starting salary?
6. What is the average workday like in terms of hours?
7. What is the projected job outlook for in the next decade?
8. What tasks would you include in job description for this occupation?
9. What skills should a person have to be successful in this career?
10. What is the work environment like?
11. What equipment is used on the job, if any?
12. What are the rewards or benefits of this career?
13. What are the opportunities for advancement?
14. Is this occupation available locally (in your city, in your state)?

# Biotechnology R&D Sample List of Occupations

Biochemist	Medical Editor/Writer
Bioinformatics Scientist	Microbiologist
Biomedical Chemist	Molecular Biologist
Biomedical Manufacturing Technician	Nurse Researcher
Biostatistician	Packaging Technician
Cancer Registrar	Patent Lawyer
Cell Biologist	Pharmaceutical/Clinical Project Manager
Clinical Data Management Specialist	Pharmaceutical Sales Representative
Clinical Pharmacologist	Pharmaceutical Scientist
Clinical Trials Monitor	Pharmacokineticist
Clinical Trials Research Coordinator	Pharmacologist
Crime Scene Investigator	Product Safety Scientist
Diagnostic Molecular Scientist	Process Development Scientist
Forensic Biologist	Processing Technician
Forensic Chemist	Quality Assurance Technician
Forensic Odontologist	Quality Control Technician
Forensic Pathologist	Regulatory Affairs Specialist
Genetic Counselor	Research Assistant
Geneticist-Lab Assistant	Research Scientist
Lab Technician	Toxicologist