

Neuroscience

Neuroscience is the study of the brain and nervous system, focusing on understanding the biological processes that govern behavior, cognition, and neurological function. Students in this major explore areas like neurobiology, cognitive neuroscience, and neuropsychology. Typical industry sectors for neuroscience graduates include healthcare (hospitals, clinics), pharmaceuticals, medical research, biotechnology, and academic or government research labs. Neuroscientists may work in clinical settings, research institutions, or in the development of neurotechnologies and treatments for neurological disorders.

Job Title Examples:

- Research Assistant
- Laboratory Technician
- Clinical Research Coordinator
- Neuroscience Technician
- Neuroimaging Assistant
- Medical Science Liaison
- Pharmaceutical Sales Representative
- Data Analyst
- Biotechnology Research Assistant
- Health Educator

Hard and Soft Skills Needed:

Hard Skills:

1. Laboratory techniques
2. Data analysis
3. Neuroimaging software proficiency
4. Statistical analysis
5. Experimental design

Soft Skills:

1. Critical thinking
2. Communication
3. Problem-solving
4. Teamwork
5. Attention to detail

Further Education/Training Required and/or Suggested:

A student earning a BS degree in neuroscience may need additional training or certifications to enter specialized fields, such as clinical research or neurotechnology. Advanced roles, like research scientist or clinical neuropsychologist, typically require a graduate degree or specific certifications.

To Enter the Field:

- A BS in neuroscience is typically sufficient for entry-level positions such as research assistant or lab technician.
- Some positions may require additional certifications in laboratory techniques or neuroimaging software.

To Advance:

- To advance in neuroscience, pursuing a graduate degree (MS or PhD) is often necessary for roles like research scientist or academic positions.
- Certifications in specialized areas (e.g., neuroimaging, data analysis, or clinical research) can also enhance career growth.

Summary: A BS in neuroscience allows entry into the field, but advancement typically requires further education and certifications depending on the career path.

Professional or Student Associations:

- Society for Neuroscience – Student Chapter
- American Psychological Society – Student Chapter
- Alpha Epsilon Delta (Honors)
- Chemistry Club
- Psi Chi
- Psychology Club