Professional biochemists apply their knowledge in many different areas ranging from environmental processes to the development of new biomaterials and novel renewable energy. They work in academic environments, high-tech start-ups, and research and development laboratories associated with practically every advanced technological field including medicine, energy, biotechnology, computing and agriculture.

Career Opportunities

Potential Job Titles
- Analytical chemist
- Biomedical scientist
- Clinical research associate
- Forensic scientist
- Healthcare scientist
- Research scientist
- Scientific laboratory technician
- Toxicologist

Degree Applications:
- New chemical products from natural products through genetic engineering
- Detecting drugs and metabolic products of pharmaceuticals
- New technologies in point-of-care analytics
- Biochemical processes and biological environments that affect petroleum and mining activities

Areas of Study

The biochemistry curriculum is based on rigorous fundamental science complemented by application of these principles to the earth, environment and energy fields.

The curriculum runs parallel to the chemistry curriculum for the first two years, with a required biochemistry laboratory, and is largely dynamic giving students flexibility in courses. Students and faculty also maintain a close relationship with Mines chemistry and engineering departments and NREL.