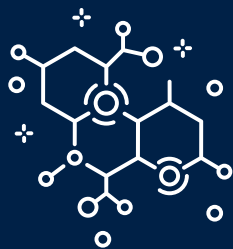


# Cell & Molecular Biology



Take biological principles and expand on how they can be used for the betterment of humankind. CMB is the study of cells and the macromolecules (DNA, RNA, protein, lipids, carbohydrates) that define their structure and function. The B.S in CMB provides students with a solid foundation in cell biology, molecular biology, microbiology, biochemistry, and molecular genetics. Students can build careers that make meaningful contributions to global medical and environmental issues, biofuels, and the genetic engineering of crops for productivity and disease resistance.

## Areas of Opportunity



- Research and development
- Biotechnology and biomedical
- Health service administration
- Social and economic development
- Quality analysis and quality assurance
- Medical field
- Biological agriculture engineering
- Public health surveillance
- Scientific journalism

## Common Employers



Private research foundations  
Universities and colleges  
Commercial and academic medical laboratories  
Public health departments  
National Institutes of Health  
Nonprofit organizations  
Federal and state government (USDA, Dept of Agriculture)

## Professional Organizations



AMP - Association for Molecular Pathology  
ASABE - The American Society of Agricultural and Biological Engineers  
ASBMB- American Society for Biochemistry and Molecular Biology  
ASCB - American Society of Cell Biology  
CDC - Centers for Disease Control and Prevention  
NIH- National Institutes of Health

## Strategies on Entering the Field



- Develop excellent communication and interpersonal skills and demonstrate a high energy level.
- Acquire internships in federal or state government.
- Become skilled in the use of computers and laboratory equipment.
- Join related student organizations at your university.
- Maintain a high grade point average and faculty relationships for networking and potential graduate school applications.
- A master's degree is sufficient for teaching at some two year-institutions.
- Volunteer or intern in a healthcare setting such as a hospital, rehabilitation facility, pharmacy, etc. based on your interests.
- Obtain graduate or professional degree.