Biophysics Summer Internships

Join Biophysics summer internships to explore the physical principles of biological systems, focusing on molecular dynamics, bioenergetics, and biophysical techniques for studying biomolecules.

Focussed Areas under Biophysics Summer Internship

1. Molecular dynamics simulations in biological systems
2. Bioenergetics and cellular respiration
3. Protein folding and structure determination
4. Biophysical techniques in drug discovery
5. NMR and X-ray crystallography for biomolecules
6. Single-molecule biophysics
7. Membrane biophysics and ion channels
8. Bioelectricity and nerve signal transmission
9. Biophysics of photosynthesis
10. Optical tweezers and force spectroscopy
11. Computational biophysics for biomolecular modeling
12. Biophysical analysis of protein-protein interactions
13. Biomechanics of cellular structures
14. Quantum biophysics in biological systems
15. Energy transfer in photosynthetic organisms
16. Thermodynamics of biological reactions
17. Biophysical analysis of nucleic acid structures
18. Cryo-electron microscopy for structural biology
19. Biophysical approaches to enzyme mechanisms
20. Neural biophysics and signal processing

Protocols Covered across various focussed areas under Biophysics Summer Internship

1. Molecular dynamics simulation setup
2. NMR spectroscopy for protein structure determination
3. X-ray crystallography for biomolecules
4. Optical tweezers for studying molecular forces
5. Single-molecule biophysics techniques
6. Membrane biophysics assays for ion channels
7. Protein folding assays using biophysical methods

8. Biophysical analysis of photosynthetic energy transfer
9. Thermodynamics assays in biological systems
10. Cryo-electron microscopy sample preparation

Duration: 5, 10, 15, 20, and 30 Days

Note: Please cross confirm whether internship slots for this field are available before joining.

Click Here for Biophysics Summer Internship Fees

Application Process and Other info