

## **Molecular Biophysics Summer Internships**

Join Molecular Biophysics summer internships to explore the physical principles governing biological molecules and processes, focusing on molecular dynamics, protein folding, structural biology, and the development of biophysical techniques for research and diagnostics.

### **Focussed Areas under Molecular Biophysics Summer Internship**

1. Molecular dynamics and simulations
2. Protein folding and stability studies
3. Structural biology using X-ray crystallography and NMR
4. Cryo-electron microscopy in molecular biophysics
5. Biophysical techniques in drug discovery
6. Interactions between biomolecules
7. Biophysical analysis of DNA-protein interactions
8. Biophysics of membrane proteins
9. Single-molecule biophysics and spectroscopy
10. Molecular biophysics in cancer research
11. Protein-ligand binding and molecular docking
12. Molecular biophysics of viruses and pathogens
13. Biophysics of enzyme catalysis and reaction dynamics
14. Computational biophysics and bioinformatics
15. Molecular biophysics in neurodegenerative diseases
16. Biophysical techniques for studying cell signaling
17. Biophysics of molecular motors and transport
18. Applications of molecular biophysics in nanotechnology
19. Molecular biophysics of genetic materials
20. Biophysical approaches in studying molecular interactions

### **Protocols Covered across various focussed areas under Molecular Biophysics Summer Internship**

1. Molecular dynamics simulations protocols
2. Protein folding and stability analysis techniques
3. X-ray crystallography and NMR sample preparation
4. Cryo-EM workflows for structural biology
5. Single-molecule spectroscopy methods in biophysics
6. DNA-protein interaction analysis protocols

7. Molecular docking and ligand-binding studies
8. Membrane protein structure determination techniques
9. Enzyme kinetics and catalysis analysis in molecular biophysics
10. Computational biophysics and bioinformatics workflows

**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 Molecular Biophysics Summer Internship Fees](#)

Application Process and Other info