

Biophysics Winter Internships

Participate in Biophysics winter internships to study biophysical principles in cold environments, focusing on protein dynamics, molecular interactions, and cryo-techniques for cold-adapted systems.

Focussed Areas under Biophysics Winter Internship

1. Molecular dynamics of cold-adapted proteins
2. Cryo-electron microscopy for cold-environment studies
3. Protein folding under cold stress
4. Biophysical techniques for studying cold-tolerant biomolecules
5. Bioenergetics in cold-adapted organisms
6. Membrane biophysics of cold-tolerant species
7. Optical tweezers for cold-adapted systems
8. Single-molecule studies in cold environments
9. Quantum biophysics in cold-adapted organisms
10. Energy transfer in cold-tolerant photosynthetic organisms
11. Thermodynamics of biochemical reactions in cold environments
12. Biophysical analysis of cold-tolerant nucleic acids
13. Computational modeling of cold-tolerant proteins
14. Biophysics of cold-induced neural adaptations
15. Cryogenic techniques in structural biology
16. Biophysical properties of antifreeze proteins
17. Cold-induced protein-protein interaction studies
18. Biophysical approaches to frost resistance
19. NMR spectroscopy for cold-adapted biomolecules
20. Biomechanics of cold-tolerant cellular structures

Protocols Covered across various focussed areas under Biophysics Winter Internship

1. Cryo-electron microscopy sample preparation for cold-adapted systems
2. Molecular dynamics simulation of cold-tolerant proteins
3. NMR spectroscopy for cold-environment proteins
4. Thermodynamics assays for cold-adapted biochemical systems
5. Protein folding studies under cold stress
6. Cryogenic biophysical techniques
7. Membrane biophysics assays for cold-tolerant species

8. Single-molecule biophysics for cold environments
9. Energy transfer analysis in cold-tolerant photosynthesis
10. Protein-protein interaction assays for cold-stress resistance

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 Winter Internship Fees](#)

Application Process and Other info