Molecular Modelling Winter Internships

Participate in Molecular Modelling winter internships to explore computational methods for studying molecular systems in cold environments, focusing on cold-induced molecular dynamics, protein-ligand interactions under cold stress, and molecular simulations for cold-resistant drug design.

Focussed Areas under Molecular Modelling Winter Internship

1. Cold-induced molecular dynamics simulations
2. Protein-ligand interactions in cold-stressed environments
3. Molecular modelling in cold-tolerant biomolecular systems
4. Quantum mechanics and molecular modelling under cold stress
5. Molecular simulations of cold-induced protein folding
6. Cold-environment drug design using molecular models
7. Cold-stress molecular simulations for enzyme catalysis
8. Energy minimization and geometry optimization under cold conditions
9. Virtual screening for cold-resistant drug discovery
10. Cold-environment homology modelling of protein structures
11. Multi-scale molecular modelling under cold-stress conditions
12. Molecular modelling for studying cold-tolerant materials
13. Molecular mechanics in cold-environment simulations
14. Cold-stress biomolecular interactions in molecular modelling
15. Molecular docking for protein-drug interactions under cold stress
16. Free energy calculations in cold-environment molecular simulations
17. Applications of molecular modelling in cold-environment pharmacology
18. Cold-induced conformational analysis of proteins
19. Molecular modelling of cold-stress genetic mutations
20. Cold-environment simulations in nanotechnology

Protocols Covered across various focussed areas under Molecular Modelling Winter Internship

1. Cold-stress molecular dynamics simulation protocols
2. Protein-ligand docking under cold conditions workflows
3. Quantum mechanics integration under cold-stress conditions
4. Energy minimization protocols for cold-stressed systems
5. Homology modelling protocols for cold-tolerant proteins

6. Cold-stress free energy calculation techniques
7. Molecular docking workflows for cold-resistant drug discovery
8. Cold-environment molecular simulations of enzyme catalysis
9. Multi-scale modelling workflows under cold-stress conditions
10. Molecular mechanics and force field application in cold environments

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 Modelling Winter Internship Fees

Application Process and Other info