Molecular Dynamics Summer Internships

Join Molecular Dynamics summer internships to explore the study of atomic and molecular motion, focusing on simulation techniques, computational models, and applications in drug design, material science, and biophysics.

Focussed Areas under Molecular Dynamics Summer Internship

1. Molecular dynamics simulations for drug design
2. Protein folding and molecular interactions
3. Computational models for biological systems
4. Molecular dynamics in material science and nanotechnology
5. Biophysical applications of molecular dynamics
6. Simulation of ligand-receptor interactions
7. Energy minimization and molecular motion studies
8. Quantum mechanics and molecular dynamics integration
9. Molecular dynamics in studying enzyme kinetics
10. Molecular simulations for disease modeling
11. Multi-scale modeling of biological systems
12. Applications of molecular dynamics in structural biology
13. Simulation techniques for macromolecular assemblies
14. Molecular dynamics in membrane protein research
15. Temperature and pressure effects in molecular simulations
16. Applications in personalized medicine and pharmacology
17. Molecular dynamics in protein-ligand binding studies
18. Biomolecular simulations for drug target validation
19. Molecular dynamics of genetic material
20. Free energy calculations in molecular dynamics

Protocols Covered across various focussed areas under Molecular Dynamics Summer Internship

1. Molecular dynamics simulation workflows
2. Protein folding and stability analysis protocols
3. Ligand-receptor interaction simulation techniques
4. Energy minimization and molecular motion protocols
5. Molecular dynamics for enzyme kinetics studies
6. Free energy calculations in molecular dynamics

7. Simulation protocols for biological macromolecules
8. Multi-scale modeling workflows for molecular systems
9. Quantum mechanics integration in molecular dynamics
10. Temperature and pressure variation protocols in simulations

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 Dynamics Summer Internship Fees

Application Process and Other info