

## Structural Bioinformatics Internship

### Advanced Focussed Areas for Interns in Structural Bioinformatics Internships

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- **Fundamentals of Structural Bioinformatics**
  - Introduction to Bioinformatics and Structural Biology
  - Protein Structure and Function
  - Nucleic Acid Structures: DNA and RNA
  - Applications of Structural Bioinformatics in Research
  - Ethics and Safety in Computational Biology
  - Future Directions in Structural Bioinformatics
- **Protein Structure Prediction and Modeling**
  - Homology Modeling and Template-Based Methods
  - Ab Initio and De Novo Structure Prediction
  - Case Studies in Protein Modeling
  - Future Trends in Structure Prediction
  - Challenges in Predicting Protein Structures
  - Regulatory Aspects of Computational Models
  - Impact of Structure Prediction on Biomedical Research
  - Public Engagement and Education in Structural Biology
  - Integration of Bioinformatics with Experimental Data
- **Molecular Dynamics and Simulation**
  - Principles of Molecular Dynamics (MD) Simulations
  - MD Simulation Software and Tools
  - Case Studies in Molecular Dynamics
  - Future Directions in Molecular Simulation
  - Challenges in MD Simulations
  - Regulatory Aspects of Computational Simulations
  - Impact of MD on Drug Design and Development
  - Public Engagement and Education in Computational Science
  - Integration of MD Simulations with Experimental Studies
- **Applications in Drug Design and Development**
  - Structure-Based Drug Design (SBDD)
  - Virtual Screening and Molecular Docking
  - Case Studies in Drug Discovery
  - Future Directions in Drug Design

- Challenges in Translational Research
- Regulatory Aspects of Drug Development
- Impact of Structural Bioinformatics on Pharmaceuticals
- Public Engagement and Education in Drug Design
- Integration of Bioinformatics with Medicinal Chemistry
- **Future Directions and Emerging Trends**
  - Innovations in Structural Bioinformatics and Computational Biology
  - Role of Bioinformatics in Precision Medicine
  - Emerging Applications in Biomedical and Agricultural Research
  - Global Trends in Structural Bioinformatics Research
  - Future of Structural Bioinformatics in Healthcare and Industry
  - Ethics and Regulation in Computational Biology
  - Future Research Priorities in Structural Biology
  - Impact of Structural Bioinformatics on Society
  - Public Engagement and Education in Computational Sciences
  - Integration of Structural Bioinformatics with AI and Data Science

**Contact Via Whatsapp on +91-7993084748 for Fee Details**