Structural Bioinformatics Internship with Accommodation at Bengaluru

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50	20	Bengaluru
Active Categories	Focused Areas	Accommodation Location

How to View Accommodation Details and Booking Options

1. Open the Internships page or the corresponding Topics page.
2. Select the relevant focused area.
3. Select the available duration, mode and internship type.
4. Choose **Offline** mode to access accommodation booking options.
5. Continue to the fee/payment page and use the **Branches Select Option**.
6. After selecting the branch, use **Book NTHRYS Accommodation** to view accommodation fee, facility photographs, amenities and the available booking details.

Structural Bioinformatics Internship Categories

AI Protein 3D Structure Prediction Research https://internships.nthrys.com/structural-bioinformatics/ai-protein-3d-structure-prediction-research	**Machine Learning Drug Docking Research** https://internships.nthrys.com/structural-bioinformatics/machine-learning-drug-docking-research
AI Structural Alignment Research https://internships.nthrys.com/structural-bioinformatics/ai-structural-alignment-research	**AI Cryo-EM Bioinformatics Research** https://internships.nthrys.com/structural-bioinformatics/ai-cryo-em-bioinformatics-research
AI Protein-Ligand Interaction Research https://internships.nthrys.com/structural-bioinformatics/ai-protein-ligand-interaction-research	**AI PDB Analysis Research** https://internships.nthrys.com/structural-bioinformatics/ai-pdb-analysis-research
AI Antibody Structure Research https://internships.nthrys.com/structural-bioinformatics/ai-antibody-structure-research	**AI RNA 3D Bioinformatics Research** https://internships.nthrys.com/structural-bioinformatics/ai-rna-3d-bioinformatics-research
AI Glycan Structure Bioinformatics Research https://internships.nthrys.com/structural-bioinformatics/ai-glycan-structure-bioinformatics-research	**AI Coevolutionary Structural Research** https://internships.nthrys.com/structural-bioinformatics/ai-coevolutionary-structural-research
Protein Fold Space Exploration Research https://internships.nthrys.com/structural-bioinformatics/protein-fold-space-exploration-research	**Membrane Protein Structure Prediction** https://internships.nthrys.com/structural-bioinformatics/membrane-protein-structure-prediction
Intrinsically Disordered Protein Analysis https://internships.nthrys.com/structural-bioinformatics/intrinsically-disordered-protein-analysis	**Protein Mutational Effect Prediction** https://internships.nthrys.com/structural-bioinformatics/protein-mutational-effect-prediction

Enzyme Active Site Characterization https://internships.nthrys.com/structural-bioinformatics/enzyme-active-site-characterization	**Multi-Chain Complex Assembly Modeling** https://internships.nthrys.com/structural-bioinformatics/multi-chain-complex-assembly-modeling
X-ray Crystallography Data Processing https://internships.nthrys.com/structural-bioinformatics/x-ray-crystallography-data-processing	**Molecular Dynamics Trajectory Analysis** https://internships.nthrys.com/structural-bioinformatics/molecular-dynamics-trajectory-analysis
Protein-DNA Interaction Structure Research https://internships.nthrys.com/structural-bioinformatics/protein-dna-interaction-structure-research	**Homology Modeling Pipeline Development** https://internships.nthrys.com/structural-bioinformatics/homology-modeling-pipeline-development
Structural Motif Discovery Research https://internships.nthrys.com/structural-bioinformatics/structural-motif-discovery-research	**Ion Channel Structure Bioinformatics** https://internships.nthrys.com/structural-bioinformatics/ion-channel-structure-bioinformatics
Protein Quality Assessment Methods https://internships.nthrys.com/structural-bioinformatics/protein-quality-assessment-methods	**Cyclic Peptide Structure Prediction** https://internships.nthrys.com/structural-bioinformatics/cyclic-peptide-structure-prediction
Carbohydrate-Protein Complex Analysis https://internships.nthrys.com/structural-bioinformatics/carbohydrate-protein-complex-analysis	**Structure-Based Virtual Screening** https://internships.nthrys.com/structural-bioinformatics/structure-based-virtual-screening
Protein Conformational State Dynamics https://internships.nthrys.com/structural-bioinformatics/protein-conformational-state-dynamics	**Ligand Binding Site Prediction** https://internships.nthrys.com/structural-bioinformatics/ligand-binding-site-prediction
Disulfide Bond Network Analysis https://internships.nthrys.com/structural-bioinformatics/disulfide-bond-network-analysis	**Protein Secondary Structure Annotation** https://internships.nthrys.com/structural-bioinformatics/protein-secondary-structure-annotation
Fragment-Based Drug Design Informatics https://internships.nthrys.com/structural-bioinformatics/fragment-based-drug-design-informatics	**Protein Thermostability Prediction** https://internships.nthrys.com/structural-bioinformatics/protein-thermostability-prediction
Viral Protein Structure Analysis https://internships.nthrys.com/structural-bioinformatics/viral-protein-structure-analysis	**Allosteric Mechanism Structural Modeling** https://internships.nthrys.com/structural-bioinformatics/allosteric-mechanism-structural-modeling
NMR Structure Determination Pipeline https://internships.nthrys.com/structural-bioinformatics/nmr-structure-determination-pipeline	**Protein Pocket Detection Algorithm** https://internships.nthrys.com/structural-bioinformatics/protein-pocket-detection-algorithm
Transmembrane Topology Prediction https://internships.nthrys.com/structural-bioinformatics/transmembrane-topology-prediction	**Cross-Linking Mass Spectrometry Analysis** https://internships.nthrys.com/structural-bioinformatics/cross-linking-mass-spectrometry-analysis
Protein Surface Property Mapping https://internships.nthrys.com/structural-bioinformatics/protein-surface-property-mapping	**Domain Organization Architecture Study** https://internships.nthrys.com/structural-bioinformatics/domain-organization-architecture-study
Binding Affinity Prediction Modeling https://internships.nthrys.com/structural-bioinformatics/binding-affinity-prediction-modeling	**Residue Contact Map Analysis** https://internships.nthrys.com/structural-bioinformatics/residue-contact-map-analysis
Protein Cavity Volume Calculation https://internships.nthrys.com/structural-bioinformatics/protein-cavity-volume-calculation	**Structural Homology Search Optimization** https://internships.nthrys.com/structural-bioinformatics/structural-homology-search-optimization
Protein Symmetry Detection Research https://internships.nthrys.com/structural-bioinformatics/protein-symmetry-detection-research	**Epitope Prediction from Structure** https://internships.nthrys.com/structural-bioinformatics/epitope-prediction-from-structure
Water Molecule Placement Analysis https://internships.nthrys.com/structural-bioinformatics/water-molecule-placement-analysis	**Protein-Protein Interface Characterization** https://internships.nthrys.com/structural-bioinformatics/protein-protein-interface-characterization
Loop Region Modeling Accuracy https://internships.nthrys.com/structural-bioinformatics/loop-region-modeling-accuracy	**Protein Structure Validation Quality Control** https://internships.nthrys.com/structural-bioinformatics/protein-structure-validation-quality-control

Structural Bioinformatics Internship Topics and Focused Areas

AI Protein 3D Structure Prediction Research

- AlphaFold2 Model Optimization and Validation
- Multi-Chain Protein Complex Structure Prediction
- Structural Motif Recognition and Classification
- Confidence Score Analysis and Uncertainty Quantification
- Structure-Based Function Prediction Pipeline Development

Machine Learning Drug Docking Research

- Deep Learning Models for Protein-Ligand Binding Affinity Prediction
- Molecular Docking Pose Generation and Ranking Algorithms
- Graph Neural Networks for 3D Protein-Ligand Complex Analysis
- Transfer Learning and Domain Adaptation in Drug Docking Models
- Interpretability and Feature Analysis in Machine Learning Docking Predictions

AI Antibody Structure Research

- Deep Learning Models for Antibody CDR Prediction
- Protein Language Models for Antibody Function Classification
- Antibody-Antigen Interface Prediction and Docking Optimization
- Structural Conformational Analysis of Antibody Variants
- Immunogenicity and Developability Prediction Using AI

Molecular Dynamics Trajectory Analysis

- Protein Conformational Dynamics and State Transitions
- Ligand Binding Kinetics and Thermodynamics from MD Simulations
- Water and Ion Dynamics in Protein Solvation Shells
- Protein-Protein Interaction Network Analysis from Ensemble Simulations
- Structural Stability and Flexibility Assessment through RMSF and B-factor Correlations