

Structural Bioinformatics Internship with Accommodation at Hyderabad

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50 Active Categories	20 Focused Areas	Hyderabad Accommodation Location
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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

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