

Biotechnology Internship with Accommodation at Kolkata

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24

Active Categories

111

Focused Areas

Kolkata

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.

Biotechnology Internship Categories

AI Next-Generation Biotech Platform Research https://internships.nthrys.com/biotechnology/ai-next-generation-biotech-platform-research	Anti Aging https://internships.nthrys.com/biotechnology/anti-aging
AI Cell & Gene Biotechnology Research https://internships.nthrys.com/biotechnology/ai-cell-gene-biotechnology-research	AI Agricultural Biotechnology Research https://internships.nthrys.com/biotechnology/ai-agricultural-biotechnology-research
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Plant Genetic Engineering and Crop Improvement https://internships.nthrys.com/biotechnology/plant-genetic-engineering-crop-improvement	Fermentation Process Development https://internships.nthrys.com/biotechnology/fermentation-process-development

Protein Expression and Purification Methods https://internships.nthrys.com/biotechnology/protein-expression-purification-methods	Biosensor Development and Diagnostics https://internships.nthrys.com/biotechnology/biosensor-development-diagnostics
Glycobiology and Protein Glycosylation https://internships.nthrys.com/biotechnology/glycobiology-protein-glycosylation	Quality Control and Analytical Testing https://internships.nthrys.com/biotechnology/quality-control-analytical-testing
Directed Evolution and Protein Screening https://internships.nthrys.com/biotechnology/directed-evolution-protein-screening	Structural Biology and Cryo-EM Research https://internships.nthrys.com/biotechnology/structural-biology-cryo-em-research
Biodiversity Screening for Novel Compounds https://internships.nthrys.com/biotechnology/biodiversity-screening-novel-compounds	Patent Strategy and IP Research https://internships.nthrys.com/biotechnology/patent-strategy-ip-research
Glycan Characterization and Analysis https://internships.nthrys.com/biotechnology/glycan-characterization-analysis	Precision Fermentation and Bioproduction https://internships.nthrys.com/biotechnology/precision-fermentation-bioproduction

Biotechnology Internship Topics and Focused Areas

AI Next-Generation Biotech Platform Research

- Machine Learning Model Development for Protein Structure Prediction
- Genomic Data Analysis and Variant Annotation Pipeline
- Natural Language Processing for Biomedical Literature Mining
- AI-Driven Drug Discovery and Molecular Docking Optimization
- Metagenomics and Microbiome Analysis Using AI Classification Models

Anti Aging

- Mitochondrial-Targeted Antioxidants

AI Cell & Gene Biotechnology Research

- Machine Learning for Gene Expression Prediction
- CRISPR-Cas9 Off-Target Effect Prediction
- Drug Response Prediction in Cancer Cell Lines
- Protein Structure Prediction and Design Optimization
- Patient Genomic Data Analysis and Variant Interpretation

AI Agricultural Biotechnology Research

- Machine Learning for Crop Phenotyping
- Genomic Data Analysis and Prediction Modeling
- Predictive Analytics for Crop Yield Optimization
- Natural Language Processing for Agricultural Literature Mining
- AI-Driven Plant Stress Detection and Response Modeling

AI Industrial Biotechnology Research

- Machine Learning for Protein Structure Prediction
- AI-Driven Metabolic Pathway Optimization

- Natural Language Processing for Bioprocess Mining
- Computer Vision for Microbial Phenotyping
- Predictive Analytics for Fermentation Process Control

AI Marine Biotechnology Research

- Machine Learning for Phytoplankton Classification
- Predictive Modeling of Harmful Algal Blooms
- AI-Driven Drug Discovery from Marine Organisms
- Genomic Analysis and Bioinformatics of Marine Microorganisms
- Computer Vision for Coral Reef Health Monitoring

AI Environmental Biotechnology Research

- Machine Learning for Microbial Community Analysis
- AI-Driven Enzyme Engineering for Pollutant Degradation
- Deep Learning for Environmental Monitoring and Prediction
- Synthetic Biology and Genetic Algorithm Optimization
- Bioinformatics Pipeline Development for Environmental Genomics

AI Food Biotechnology Research

- Machine Learning for Crop Yield Prediction
- AI-Driven Pathogen Detection in Food Products
- Precision Fermentation Process Optimization
- Natural Language Processing for Agricultural Research Literature
- Genomic Data Analysis for Plant Breeding and Trait Selection

AI Synthetic Biotechnology Research

- Machine Learning for Protein Structure Prediction
- AI-Driven Synthetic Pathway Design
- Generative Models for DNA and RNA Sequence Design
- Natural Language Processing for Bioinformatics Literature Mining
- Reinforcement Learning for Strain Optimization and Fermentation Control

AI Biotech Regulatory & Ethics Research

- AI Algorithm Validation in Clinical Diagnostics
- Ethical Review of Genomic Data Privacy
- Regulatory Pathways for AI-Assisted Drug Discovery
- Bias Detection and Mitigation in Biotech AI Models
- Intellectual Property Strategy for AI Biotech Innovations

Enzyme Engineering and Biocatalysis

- Directed Evolution of Enzymes for Industrial Applications
- Protein Engineering for Enhanced Biocatalytic Performance
- Immobilization and Stabilization Strategies for Biocatalysts
- Synthetic Enzyme Cascades for Complex Biosynthesis
- Promiscuous Enzymes for Novel Biochemical Transformations

Synthetic Biology Circuit Design

- Genetic Toggle Switch Implementation
- Metabolic Pathway Optimization
- CRISPR-Based Biosensing Circuits
- Quorum Sensing Communication Networks
- Synthetic Oscillatory Circuits and Timers

Plant Genetic Engineering and Crop Improvement

- CRISPR-Cas9 Gene Editing in Crop Species
- Drought and Stress Tolerance Gene Identification
- Marker-Assisted Selection and Genomic Breeding
- Transgenic Crop Development and Trait Stacking
- Nutritional Quality Enhancement through Biofortification

Fermentation Process Development

- Microbial Strain Optimization for Enhanced Metabolite Production
- Bioreactor Design and Scale-Up Studies
- Media Formulation and Nutrient Optimization
- Bioprocess Monitoring and Control Systems
- Metabolic Engineering for Sustainable Fermentation

Protein Expression and Purification Methods

- Recombinant Protein Expression Optimization in *E. coli*
- Protein Purification Strategy Development and Chromatography
- Mammalian Cell-Based Protein Production Systems
- Protein Characterization and Quality Control Analysis
- Inclusion Body Formation and In Vitro Refolding Techniques

Biosensor Development and Diagnostics

- Point-of-Care Diagnostic Device Development
- Aptamer and Antibody Selection for Biosensors

- Signal Transduction and Readout Systems
- Wearable and Continuous Monitoring Biosensors
- Multiplex Detection and Data Analysis

Glycobiology and Protein Glycosylation

- N-Glycosylation Pattern Analysis in Therapeutic Proteins
- Glycosyltransferase Expression and Enzyme Kinetics
- Lectin-Glycan Binding and Cell Surface Interactions
- Quality Control and Glycan Profiling in Biopharmaceuticals
- Site-Directed Mutagenesis of Glycosylation Sites in Recombinant Proteins

Quality Control and Analytical Testing

- Chromatography Method Development and Validation
- Microbial Contamination Analysis and Sterility Testing
- Protein Characterization and Purity Assessment
- Stability Testing and Shelf-Life Determination
- Residual Analysis and Impurity Detection

Directed Evolution and Protein Screening

- High-Throughput Protein Library Construction and Screening
- Directed Evolution of Enzymes for Biocatalysis
- Cell-Free Protein Expression and In Vitro Compartmentalization
- Machine Learning Applications in Protein Sequence Analysis and Design
- Antibody Engineering and Affinity Maturation

Structural Biology and Cryo-EM Research

- Cryo-EM Sample Preparation and Grid Optimization
- 3D Reconstruction and Image Processing Pipeline Development
- Protein Structure Modeling and Molecular Dynamics Simulation
- Cryo-EM Instrument Operation and Data Acquisition
- Structural Comparison and Homology Modeling in Drug Discovery

Biodiversity Screening for Novel Compounds

- Microbial Isolation and Screening from Environmental Samples
- Natural Product Extract Analysis and Fractionation
- High-Throughput Screening Assay Development
- Genomic and Bioinformatic Analysis of Secondary Metabolite Biosynthesis
- Bioassay-Guided Isolation and Structure Elucidation

Patent Strategy and IP Research

- Biotechnology Patent Landscape Analysis
- Freedom to Operate (FTO) Assessment
- Biotech Prior Art Research and Documentation
- Intellectual Property Strategy for Biotech Startups
- Patent Claim Analysis and Drafting Support

Precision Fermentation and Bioproduction

- Microbial Strain Engineering and Optimization
- Bioreactor Design and Process Scale-Up
- Recombinant Protein Production and Purification
- Synthetic Biology and Metabolic Engineering
- Bioprocess Analytics and Data Integration

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