

Forensic Science Internship with Accommodation at Kolkata

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50
Active Categories

180
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.

Forensic Science Internship Categories

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Forensic Science Internship Topics and Focused Areas

AI Forensic DNA Genomics Research

- DNA Sequence Alignment and Variant Calling
- Machine Learning Models for DNA Profile Classification
- Population Genetics and Statistical Analysis
- Degraded and Low-Quality DNA Recovery Enhancement
- Microbiome Analysis in Forensic Investigations

Machine Learning Digital Forensics Research

- Malware Detection Using Deep Neural Networks
- Automated Artifact Analysis for Digital Crime Scenes
- Image Authenticity and Manipulation Detection
- Timeline Reconstruction and Temporal Analysis
- Natural Language Processing for Digital Evidence Classification

AI Toxicological Forensics Research

- Machine Learning Models for Toxin Detection and Classification
- Automated Post-Mortem Toxicology Report Generation
- Pattern Recognition in Drug Metabolism and Time-of-Death Estimation
- AI-Assisted Compound Structure Elucidation from Spectroscopic Data
- Computer Vision for Chromatography Image Analysis and Contamination Detection

AI Trace Evidence Analysis Research

- Digital Fingerprint Classification using Machine Learning
- Ballistic Evidence Pattern Recognition and Matching
- Trace DNA Analysis Automation and Sequencing
- Glass and Fiber Fragment Classification Through Image Analysis
- Gunshot Residue Detection and Chemical Composition Analysis

AI Bloodstain Pattern Analysis Research

- Machine Learning Model Development for Bloodstain Classification
- Computer Vision Algorithm Enhancement for Pattern Recognition
- 3D Reconstruction and Spatial Analysis of Bloodstain Evidence
- Dataset Curation and Benchmark Development for AI Training
- Performance Validation and Reliability Testing of AI Systems

AI Forensic Entomology Research

- Insect Species Identification and Classification Using Machine Learning
- Postmortem Interval (PMI) Prediction Through Larval Development Analysis
- Environmental Factor Impact Modeling on Insect Colonization Patterns
- Computer Vision System Development for Insect Morphological Feature Extraction
- Natural Language Processing for Forensic Entomology Case Report Analysis

AI Environmental Forensics Research

- Machine Learning Models for Pollutant Source Identification
- Satellite Imagery Analysis for Environmental Crime Detection
- Water Quality Forensics using Bioinformatics and AI
- Air Quality Attribution and Emission Source Modeling
- Digital Soil Forensics: AI Analysis of Soil Composition Profiles

AI Forensic Imaging & Reconstruction Research

- 3D Crime Scene Reconstruction Using Photogrammetry
- 3D Crime Scene Reconstruction Using Photogrammetry

- Deep Learning Models for Evidence Image Classification
- Deep Learning Models for Facial Recognition in Forensic Images
- AI-Powered Evidence Enhancement and Image Restoration
- Facial Recognition and Suspect Identification Systems
- Automated Bloodstain Pattern Analysis Using Computer Vision
- Digital Image Enhancement for Forensic Analysis
- Bloodstain Pattern Analysis Using Computer Vision
- Digital Forensic Imaging Pipeline Development for Evidence Management

AI Questioned Document Forensics Research

- Handwriting Pattern Recognition Using Deep Learning
- Digital Document Manipulation Detection
- Signature Verification Systems Development
- Ink and Paper Analysis Using Spectroscopy
- Natural Language Processing for Authorship Attribution

Forensic Fingerprint Pattern Recognition Research

- Automated Fingerprint Classification Systems
- Latent Fingerprint Enhancement and Recovery
- Fingerprint Matching and Minutiae Analysis
- 3D Fingerprint Imaging and Biometric Authentication
- Age Estimation and Pattern Degradation Studies

Crime Scene Photography Documentation Research

- Digital Image Enhancement Techniques for Crime Scene Evidence
- 3D Photogrammetry and Spatial Documentation Methods
- Metadata Analysis and Digital Integrity Verification
- Photography Standards Compliance and Legal Admissibility
- Evidence Pattern Recognition and Photographic Analysis

Forensic Ballistics and Firearms Analysis Research

- Ballistic Fingerprinting and Firearm Identification Database Development
- Gunshot Residue (GSR) Analysis and Chemical Detection Methods
- Trajectory Analysis and Bullet Hole Pattern Interpretation
- Firearm Microscopy and Comparative Analysis Techniques
- Tool Mark Analysis and Firearm Component Examination

Forensic Toxicology Substance Screening Research

- Chromatography Method Development for Novel Psychoactive Substances
- Post-Mortem Toxicology Sample Analysis and Interpretation
- Immunoassay Screening Protocol Optimization
- Drug-Drug Interaction and Metabolism Pathway Research
- Workplace Drug Testing Program Development and Validation

Forensic Fiber and Textile Analysis Research

- Fiber Microscopy and Classification Techniques
- Textile Transfer and Trace Evidence Recovery
- Chemical Analysis of Fibers and Dyes
- Forensic Textile Pattern and Weave Analysis
- DNA Recovery from Fiber Evidence

Forensic Glass Fracture Pattern Analysis Research

- Glass Fracture Pattern Classification Using Machine Learning
- Impact Velocity and Force Reconstruction from Fracture Mechanics
- Comparative Analysis of Glass Types and Fracture Behavior
- Temporal Analysis of Glass Fracture Pattern Degradation
- 3D Digital Imaging and Topographical Mapping of Fracture Surfaces

Forensic Paint Transfer and Composition Research

- Paint Layer Sequencing and Stratigraphy Analysis
- Instrumental Analysis of Paint Composition
- Transfer Pattern Reconstruction and Simulation
- Automotive Paint Database Development and Curation
- Aging and Environmental Effects on Paint Evidence

Forensic Soil and Geological Evidence Research

- Soil Mineralogy and Provenance Analysis
- Geochemical Fingerprinting of Sediments
- Soil Particle Size and Grain Analysis
- Paleoenvironmental Reconstruction from Soil Stratigraphy
- Rock and Mineral Trace Evidence Database Development

Forensic Pathology Autopsy Procedures Research

- Comparative Analysis of Autopsy Findings in Blunt Force Trauma Cases
- Postmortem Interval Determination Through Histopathological and Entomological

Analysis

- Toxicological Autopsy Case Studies: Drug and Poison Detection Methodologies
- Digital Forensic Pathology Imaging and 3D Reconstruction of Fatal Injuries
- Sudden Unexpected Nocturnal Death Syndrome (SUNDS) and Cardiac Pathology Investigation

Forensic Anthropology Skeletal Analysis Research

- Bone Morphometry and Metric Analysis
- Taphonomic Process Documentation
- Age and Sex Estimation Method Development
- Pathological Conditions and Trauma Analysis
- Ancestry Assessment and Population Variation Studies

Forensic Mobile Device Evidence Extraction Research

- Mobile Device Forensic Image Acquisition Protocols
- Encrypted Data Recovery from Mobile Devices
- Digital Artifacts and Timeline Reconstruction Analysis
- Cloud-Integrated Mobile Forensics and Cross-Device Evidence Correlation
- Mobile Malware Detection and Behavioral Analysis in Forensic Investigations

Forensic Bite Mark Analysis and Comparison Research

- Digital 3D Bite Mark Reconstruction and Analysis
- Bite Mark Pattern Variability in Different Populations
- Machine Learning Classification of Bite Mark Evidence
- Bite Mark Degradation and Environmental Impact Studies
- Validation and Reliability Assessment of Bite Mark Comparison Methodologies

Forensic Footwear and Tire Tread Matching Research

- Digital Image Analysis of Footwear Impressions
- Tire Tread Pattern Classification and Database Development
- Three-Dimensional Footwear and Tire Impression Reconstruction
- Material Composition Analysis of Sole and Tire Impressions
- Validation Studies on Footwear and Tire Matching Methodologies

Forensic Toolmark and Impression Analysis Research

- Digital 3D Imaging and Comparison of Toolmarks
- Biomechanics of Impression Formation in Different Substrates
- Machine Learning Models for Automated Toolmark Identification

- Wear Pattern Analysis and Tool Degradation Studies
- Shoeprint and Tire Track Classification System Development

Forensic Drug Chemistry and Identification Research

- Chromatographic Analysis of Novel Psychoactive Substances
- Spectroscopic Fingerprinting and Drug Profiling
- Quantitative Analysis and Purity Assessment of Controlled Substances
- Synthesis and Characterization of Drug Metabolites
- Database Development for Forensic Drug Reference Standards

Forensic Explosives Detection and Analysis Research

- Explosive Residue Characterization and Detection
- Canine Olfaction and Detection Algorithm Optimization
- Post-Blast Analysis and Fragmentation Pattern Documentation
- Trace Evidence Preservation and Non-Destructive Analysis Methods
- Environmental and Temporal Factors in Explosive Compound Stability

Forensic Serology Blood Type Determination Research

- ABO and Rh Blood Group Typing Techniques
- Advanced Blood Stain Pattern Analysis and Serology
- Subgroup and Extended Blood Group Systems Characterization
- Molecular Techniques for Blood Group Genotyping
- Serology Quality Assurance and Validation Studies

Forensic DNA Population Genetics Research

- Population Allele Frequency Database Development
- Genetic Ancestry and Population Stratification Analysis
- Hardy-Weinberg Equilibrium and Population Genetics Statistical Modeling
- Next-Generation Sequencing Data Analysis in Population Studies
- Kinship Probability and Match Statistics Research

Forensic Mitochondrial DNA Analysis Research

- mtDNA Extraction and Sequencing Protocol Development
- Phylogenetic Analysis and Maternal Lineage Tracking
- Heteroplasmy Detection and Interpretation
- Database Management and Reference Population Studies
- Degraded DNA Recovery and Low-Copy Number Analysis

Forensic Sexual Assault Evidence Collection Research

- DNA Recovery Optimization from Biological Evidence
- Chain of Custody Documentation and Standardization
- Biological Marker Analysis and Interpretation
- Trauma-Informed Evidence Collection Protocols
- Contamination Prevention and Detection Methods

Forensic Toxin Detection in Biological Matrices Research

- Chromatographic Analysis of Drugs in Biological Samples
- Immunoassay Screening Techniques and Interpretation
- Post-Mortem Toxicology and Specimen Collection Protocols
- Novel Psychoactive Substances (NPS) Detection and Characterization
- Trace Metal and Inorganic Toxin Analysis

Forensic Time of Death Estimation Research

- Algor Mortis Temperature Mapping and Modeling
- Entomological Evidence Analysis for Postmortem Interval Estimation
- Taphonomic Decomposition Staging and Environmental Variables
- Histological and Biochemical Markers for Early Postmortem Changes
- Digital Imaging and Machine Learning Applications in Decomposition Analysis

Forensic 3D Crime Scene Reconstruction Research

- Photogrammetry Data Processing and Validation
- LiDAR Integration and Point Cloud Analysis
- Virtual Reality Crime Scene Visualization
- Ballistics Trajectory Modeling and Simulation
- Machine Learning for Automated Evidence Detection in 3D Models

Forensic Currency and Counterfeit Detection Research

- Spectroscopic Analysis of Security Features in Currency
- Machine Learning Model Development for Counterfeit Detection
- Chemical Composition Analysis of Counterfeit Paper and Inks
- Digital Forensics and Cryptocurrency Fraud Investigation
- Forensic Document Examination of Currency Security Features

Forensic Trace Element Analysis by ICP-MS Research

- Gunshot Residue (GSR) Characterization via ICP-MS
- Soil and Sediment Provenance Matching

- Glass Fragment Analysis and Source Attribution
- Paint Chip Elemental Profiling for Vehicle Identification
- Biological Fluid and Tissue Element Bioaccumulation Patterns

Forensic Video Evidence Enhancement and Analysis Research

- Video Compression Artifact Analysis and Detection
- Super-Resolution Techniques for Low-Quality Surveillance Footage
- Temporal Consistency in Video Frame Interpolation for Forensic Purposes
- Digital Tampering Detection in Video Evidence Using Forensic Hashing
- Motion Compensation and Stabilization in Forensic Video Analysis

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