



Forensic Science Internship

Advanced Focussed Areas for Interns in Forensic Science Internships

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- **Fundamentals of Forensic Science**
 - Introduction to Forensic Science
 - Crime Scene Investigation and Evidence Collection
 - Principles of Forensic Chemistry
 - Forensic Biology and DNA Analysis
 - Trace Evidence Analysis
 - Forensic Toxicology and Drug Analysis
 - Forensic Anthropology and Odontology
 - Document Examination and Handwriting Analysis
 - Fingerprint Analysis and Identification
 - Applications of Forensic Science in Criminal Justice
- **Forensic DNA Profiling**
 - DNA Extraction and Quantification
 - Polymerase Chain Reaction (PCR) Techniques
 - Short Tandem Repeat (STR) Analysis
 - Mitochondrial DNA and Y-STR Analysis
 - Kinship Testing and Paternity Analysis
 - DNA Databases and Data Interpretation
 - Challenges and Limitations in DNA Analysis
 - Quality Assurance and Control in DNA Testing
 - Ethical and Legal Issues in Forensic DNA Profiling
 - Future Directions in Forensic Genetics
- **Forensic Toxicology and Drug Analysis**
 - Principles of Forensic Toxicology
 - Drug Metabolism and Pharmacokinetics
 - Detection of Drugs and Poisons
 - Analytical Techniques in Toxicology
 - Blood Alcohol Testing and Analysis
 - Poisoning Cases and Forensic Investigation
 - Toxicological Analysis in Forensic Cases
 - Forensic Toxicology Reporting and Interpretation
 - Challenges in Forensic Toxicology

- Future Trends in Forensic Toxicology
- **Digital Forensics and Cybercrime**
 - Introduction to Digital Forensics
 - Computer and Network Forensics
 - Mobile Device Forensics
 - Cybercrime Investigation Techniques
 - Data Recovery and Analysis
 - Forensic Imaging and Data Acquisition
 - Digital Evidence Handling and Preservation
 - Legal and Ethical Aspects of Digital Forensics
 - Cybersecurity and Incident Response
 - Future Directions in Digital Forensics
- **Future Directions and Emerging Trends**
 - Innovations in Forensic Science
 - Role of Forensics in Criminal Justice
 - Emerging Technologies in Forensic Investigations
 - Global Trends in Forensic Research
 - Future of Forensic Science in Crime Solving
 - Ethics and Regulation in Forensic Research
 - Future Research Priorities in Forensic Science
 - Impact of Forensic Science on Society
 - Public Engagement and Education in Forensic Science
 - Integration of Forensic Science with AI and Data Analytics

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