

Experimental Biotechnology Internship

Advanced Focussed Areas for Interns in Experimental Biotechnology Internships

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- **Fundamentals of Experimental Biotechnology**
 - Introduction to Biotechnology and Molecular Biology
 - Genetic Engineering and Gene Editing
 - Recombinant DNA Technology
 - CRISPR-Cas Systems and Applications
 - Cloning and Expression of Recombinant Proteins
 - Gene Silencing and RNA Interference
 - Biotechnological Tools and Techniques
 - Microbial Biotechnology and Metabolic Engineering
 - Applications of Biotechnology in Medicine and Industry
 - Ethics and Regulation in Biotechnology
- **Advanced Genetic Engineering Techniques**
 - CRISPR-Cas9 and Genome Editing
 - Site-Directed Mutagenesis
 - Gene Knockout and Knockin Strategies
 - Transgenic Animals and Plants
 - Gene Therapy and Genetic Engineering
 - Stem Cell Technology and Regenerative Medicine
 - Functional Genomics and Transcriptomics
 - Epigenetic Engineering and Applications
 - Gene Drives and Synthetic Biology
 - Future Directions in Genetic Engineering
- **Synthetic Biology and Bioengineering**
 - Principles of Synthetic Biology
 - Design and Construction of Genetic Circuits
 - Metabolic Pathway Engineering
 - Biobricks and Standardized Parts
 - Biosensors and Diagnostic Devices
 - Microbial Cell Factories and Production Systems
 - Artificial Cells and Minimal Genomes
 - Bioinformatics and Computational Biology
 - Applications in Biomanufacturing and Biopharmaceuticals

- Future Trends in Synthetic Biology
- **Experimental Techniques in Biotechnology**
 - DNA and RNA Extraction and Purification
 - PCR and qPCR Techniques
 - Gel Electrophoresis and Blotting Methods
 - Protein Expression and Purification
 - Enzyme Assays and Activity Analysis
 - Cell Culture and Tissue Engineering
 - Microscopy and Imaging Techniques
 - High-Throughput Screening and Assays
 - Flow Cytometry and Cell Sorting
 - Future Directions in Experimental Techniques
- **Future Directions and Emerging Trends**
 - Innovations in Experimental Biotechnology
 - Role of Biotechnology in Precision Medicine
 - Emerging Applications in Biotechnology
 - Global Trends in Biotechnology Research
 - Future of Biotechnology in Healthcare and Industry
 - Ethics and Regulation in Experimental Biotechnology
 - Future Research Priorities in Biotechnology
 - Impact of Biotechnology on Society
 - Public Engagement and Education in Biotechnology
 - Integration of Biotechnology with AI and Data Science

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