

Biochemistry Internship Topics

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Active Categories

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Focused Areas

Internships
Internships

Biochemistry Internship Categories

AI Enzyme Mechanism & Kinetics Research https://internships.nthrys.com/biochemistry/ai-enzyme-mechanism-kinetics-research	Machine Learning for Metabolic Network Research https://internships.nthrys.com/biochemistry/machine-learning-metabolic-network-research
AI Protein Biochemistry & PTM Research https://internships.nthrys.com/biochemistry/ai-protein-biochemistry-ptm-research	AI Lipid Biochemistry & Signaling Research https://internships.nthrys.com/biochemistry/ai-lipid-biochemistry-signaling-research
AI Nucleic Acid Biochemistry Research https://internships.nthrys.com/biochemistry/ai-nucleic-acid-biochemistry-research	AI Carbohydrate Biochemistry Research https://internships.nthrys.com/biochemistry/ai-carbohydrate-biochemistry-research
AI Natural Product Biochemistry Research https://internships.nthrys.com/biochemistry/ai-natural-product-biochemistry-research	AI Cell Signaling Biochemistry Research https://internships.nthrys.com/biochemistry/ai-cell-signaling-biochemistry-research
AI Structural Biochemistry Research https://internships.nthrys.com/biochemistry/ai-structural-biochemistry-research	AI Chemical Biology Interface Research https://internships.nthrys.com/biochemistry/ai-chemical-biology-interface-research
Protein Folding & Misfolding Disease Research https://internships.nthrys.com/biochemistry/protein-folding-misfolding-disease-research	Enzyme Engineering & Directed Evolution https://internships.nthrys.com/biochemistry/enzyme-engineering-directed-evolution
Metabolomics & Biomarker Discovery https://internships.nthrys.com/biochemistry/metabolomics-biomarker-discovery	Drug Metabolism & Pharmacokinetics Research https://internships.nthrys.com/biochemistry/drug-metabolism-pharmacokinetics-research
Post-Translational Modification Analysis https://internships.nthrys.com/biochemistry/post-translational-modification-analysis	Receptor-Ligand Binding Kinetics Study https://internships.nthrys.com/biochemistry/receptor-ligand-binding-kinetics-study
Redox Biochemistry & Oxidative Stress https://internships.nthrys.com/biochemistry/redox-biochemistry-oxidative-stress	Membrane Protein Isolation & Characterization https://internships.nthrys.com/biochemistry/membrane-protein-isolation-characterization
Protein-Protein Interaction Network Mapping https://internships.nthrys.com/biochemistry/protein-protein-interaction-network-mapping	Bioenergetics & ATP Production Research https://internships.nthrys.com/biochemistry/bioenergetics-atp-production-research
Enzymatic Biosynthesis Pathway Engineering https://internships.nthrys.com/biochemistry/enzymatic-biosynthesis-pathway-engineering	Protein Aggregation & Amyloid Formation https://internships.nthrys.com/biochemistry/protein-aggregation-amyloid-formation
Enzyme Inhibition & Drug Screening https://internships.nthrys.com/biochemistry/enzyme-inhibition-drug-screening	Cofactor Biosynthesis & Metabolism https://internships.nthrys.com/biochemistry/cofactor-biosynthesis-metabolism
Proteolytic Enzyme Specificity Research https://internships.nthrys.com/biochemistry/proteolytic-enzyme-specificity-research	Glycoprotein Analysis & Characterization https://internships.nthrys.com/biochemistry/glycoprotein-analysis-characterization
Allosteric Regulation & Cooperative Binding https://internships.nthrys.com/biochemistry/allosteric-regulation-cooperative-binding	Chemotherapy Target Validation Research https://internships.nthrys.com/biochemistry/chemotherapy-target-validation-research
Microbial Enzyme Production & Screening https://internships.nthrys.com/biochemistry/microbial-enzyme-production-screening	Protein Sequence Homology & Evolution https://internships.nthrys.com/biochemistry/protein-sequence-homology-evolution
Cellular pH Regulation & Buffering Systems https://internships.nthrys.com/biochemistry/cellular-ph-regulation-buffering-systems	Substrate Analog & Transition State Research https://internships.nthrys.com/biochemistry/substrate-analog-transition-state-research

Biomining & Crystal Formation https://internships.nthrys.com/biochemistry/biomining-crystal-formation	Immunological Protein Characterization https://internships.nthrys.com/biochemistry/immunological-protein-characterization
Lipid Oxidation & Peroxidation Research https://internships.nthrys.com/biochemistry/lipid-oxidation-peroxidation-research	Enzyme Thermostability & Engineering https://internships.nthrys.com/biochemistry/enzyme-thermostability-engineering
Nucleotide Synthesis & Salvage Pathways https://internships.nthrys.com/biochemistry/nucleotide-synthesis-salvage-pathways	Protein Degradation & Ubiquitin System https://internships.nthrys.com/biochemistry/protein-degradation-ubiquitin-system
Amino Acid Metabolism & Biosynthesis https://internships.nthrys.com/biochemistry/amino-acid-metabolism-biosynthesis	Enzyme Complex Assembly & Function https://internships.nthrys.com/biochemistry/enzyme-complex-assembly-function
Biofilm Biochemistry & Antibiotic Resistance https://internships.nthrys.com/biochemistry/biofilm-biochemistry-antibiotic-resistance	Photosynthetic Enzyme System Research https://internships.nthrys.com/biochemistry/photosynthetic-enzyme-system-research
Hormone Biosynthesis & Signaling Pathways https://internships.nthrys.com/biochemistry/hormone-biosynthesis-signaling-pathways	DNA Repair Enzyme Characterization https://internships.nthrys.com/biochemistry/dna-repair-enzyme-characterization
Extracellular Matrix Protein Cross-linking https://internships.nthrys.com/biochemistry/extracellular-matrix-protein-crosslinking	Inflammatory Mediator Biochemistry https://internships.nthrys.com/biochemistry/inflammatory-mediator-biochemistry
Metal Ion Homeostasis & Transport https://internships.nthrys.com/biochemistry/metal-ion-homeostasis-transport	Enzyme Inhibitor Development & Testing https://internships.nthrys.com/biochemistry/enzyme-inhibitor-development-testing
Aging Biochemistry & Senescence Research https://internships.nthrys.com/biochemistry/aging-biochemistry-senescence-research	Xenobiotic Metabolism & Detoxification https://internships.nthrys.com/biochemistry/xenobiotic-metabolism-detoxification

Biochemistry Internship Topics and Focused Areas

AI Carbohydrate Biochemistry Research

- Machine Learning Models for Carbohydrate Structure Prediction
- Natural Language Processing for Glycomics Literature Mining
- AI-Driven Drug-Carbohydrate Interaction Analysis
- Metabolic Pathway Optimization Using AI and Systems Biology
- Image Analysis and Pattern Recognition in Carbohydrate Spectroscopy

AI Structural Biochemistry Research

- Protein Structure Prediction using Deep Learning
- Molecular Docking and Drug-Ligand Interaction Analysis
- Enzyme Kinetics Modeling and Structural Analysis
- Cryo-EM Data Processing and 3D Reconstruction
- Protein-Protein Interaction Mapping and Network Analysis

Drug Metabolism & Pharmacokinetics Research

- Phase I Drug Metabolism Pathways
- Phase II Conjugation Reactions & Bioavailability
- Pharmacokinetic Parameter Estimation & ADME Modeling
- Drug-Drug Interaction & CYP450 Inhibition Studies
- Metabolite Identification & Toxicology Assessment

DNA Repair Enzyme Characterization

- Base Excision Repair (BER) Enzyme Kinetics
- Nucleotide Excision Repair (NER) Protein-DNA Interactions
- Mismatch Repair (MMR) Enzyme Expression and Purification
- DNA Polymerase Fidelity in Repair Pathways
- High-Resolution Structural Analysis of Repair Complexes

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