

Environmental Biotechnology Internship Topics

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Active Categories

20
Focused Areas

Internships
Internships

Environmental Biotechnology Internship Categories

AI Wastewater Treatment Biotech Research https://internships.nthrys.com/environmental-biotechnology/ai-wastewater-treatment-biotech-research	Machine Learning Bioremediation Strategy Research https://internships.nthrys.com/environmental-biotechnology/machine-learning-bioremediation-strategy
AI Soil Biotech Remediation Research https://internships.nthrys.com/environmental-biotechnology/ai-soil-biotech-remediation-research	AI Biosensor Environmental Monitoring Research https://internships.nthrys.com/environmental-biotechnology/ai-biosensor-environmental-monitoring
AI Green Chemistry Biotech Research https://internships.nthrys.com/environmental-biotechnology/ai-green-chemistry-biotech-research	AI Biogas & Biomethane Research https://internships.nthrys.com/environmental-biotechnology/ai-biogas-biomethane-research
AI Constructed Ecosystem Biotech Research https://internships.nthrys.com/environmental-biotechnology/ai-constructed-ecosystem-biotech-research	AI Marine Biotech Remediation Research https://internships.nthrys.com/environmental-biotechnology/ai-marine-biotech-remediation-research
AI Microalgae Environmental Application Research https://internships.nthrys.com/environmental-biotechnology/ai-microalgae-environmental-application	AI AMR Environmental Biotech Research https://internships.nthrys.com/environmental-biotechnology/ai-amr-environmental-biotech-research
Enzyme Engineering Bioremediation Pathway Development https://internships.nthrys.com/environmental-biotechnology/enzyme-engineering-bioremediation-pathway-development	CRISPR Gene Editing Environmental Microorganism Research https://internships.nthrys.com/environmental-biotechnology/crispr-gene-editing-environmental-microorganism-research
Lignin Degradation Biotechnology Research https://internships.nthrys.com/environmental-biotechnology/lignin-degradation-biotechnology-research	Plastic-Eating Enzyme Evolution Research https://internships.nthrys.com/environmental-biotechnology/plastic-eating-enzyme-evolution-research
Synthetic Biology Phytoremediation Enhancement https://internships.nthrys.com/environmental-biotechnology/synthetic-biology-phytoremediation-enhancement	Extremophile Biocatalyst Discovery Research https://internships.nthrys.com/environmental-biotechnology/extremophile-biocatalyst-discovery-research
Mycoremediation Fungal Strain Development https://internships.nthrys.com/environmental-biotechnology/mycoremediation-fungal-strain-development	Bioelectrochemical Remediation System Research https://internships.nthrys.com/environmental-biotechnology/bioelectrochemical-remediation-system-research
Metagenomic Bioremediation Consortium Analysis https://internships.nthrys.com/environmental-biotechnology/metagenomic-bioremediation-consortium-analysis	Biosorption Material Development Research https://internships.nthrys.com/environmental-biotechnology/biosorption-material-development-research
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Biorefinery Integrated Production System Research https://internships.nthrys.com/environmental-biotechnology/biorefinery-integrated-production-system-research	Horizontal Gene Transfer Bioremediation Enhancement https://internships.nthrys.com/environmental-biotechnology/horizontal-gene-transfer-bioremediation-enhancement
Microbial Remediation Database Development https://internships.nthrys.com/environmental-biotechnology/microbial-remediation-database-development	Endophytic Microorganism Discovery Research https://internships.nthrys.com/environmental-biotechnology/endophytic-microorganism-discovery-research
Quorum Sensing Biofilm Control Research https://internships.nthrys.com/environmental-biotechnology/quorum-sensing-biofilm-control-research	Biomolecular Sensor Development Research https://internships.nthrys.com/environmental-biotechnology/biomolecular-sensor-development-research

Bioluminescent Reporter Gene Bioremediation Monitoring https://internships.nthrys.com/environmental-biotechnology/bioluminescent-reporter-gene-bioremediation-monitoring	Petroleum Hydrocarbon Degradation Pathway Mapping https://internships.nthrys.com/environmental-biotechnology/petroleum-hydrocarbon-degradation-pathway-mapping
Pesticide Residue Biodegradation Microbiology https://internships.nthrys.com/environmental-biotechnology/pesticide-residue-biodegradation-microbiology	Heavy Metal Bioaccumulation Mechanism Research https://internships.nthrys.com/environmental-biotechnology/heavy-metal-bioaccumulation-mechanism-research
Radioactive Isotope Bioremediation Research https://internships.nthrys.com/environmental-biotechnology/radioactive-isotope-bioremediation-research	Industrial Wastewater Biotreatment Process Optimization https://internships.nthrys.com/environmental-biotechnology/industrial-wastewater-biotreatment-process-optimization
Microbial Electrosynthesis Carbon Fixation Research https://internships.nthrys.com/environmental-biotechnology/microbial-electrosynthesis-carbon-fixation-research	Ammonia Oxidizing Microorganism Research https://internships.nthrys.com/environmental-biotechnology/ammonia-oxidizing-microorganism-research
Denitrification Pathway Engineering Research https://internships.nthrys.com/environmental-biotechnology/denitrification-pathway-engineering-research	Sulfate Reduction Bioreactor Development https://internships.nthrys.com/environmental-biotechnology/sulfate-reduction-bioreactor-development
Biomineralization Environmental Application Research https://internships.nthrys.com/environmental-biotechnology/biomineralization-environmental-application-research	Phage-Based Bioremediation Enhancement Strategy https://internships.nthrys.com/environmental-biotechnology/phage-based-bioremediation-enhancement-strategy

Environmental Biotechnology Internship Topics and Focused Areas

Machine Learning Bioremediation Strategy Research

- Predictive Modeling of Microbial Degradation Pathways
- Environmental Parameter Optimization Using Reinforcement Learning
- Neural Networks for Contaminant Detection and Classification
- Time-Series Analysis of Bioremediation Process Monitoring
- Multi-Modal Data Integration for Bioremediation Site Assessment

Synthetic Biology Phytoremediation Enhancement

- Hyperaccumulator Plant Genetic Engineering
- Microbial-Plant Synthetic Consortia Development
- Bioaccumulation Pathway Metabolic Engineering
- Synthetic Promoter Design for Contaminant-Responsive Gene Expression
- Detoxification Enzyme Production and Plant Expression Optimization

Wetland Treatment System Biotechnology Research

- Microbial Community Dynamics in Constructed Wetlands
- Phytoremediation Efficiency and Plant-Microbe Interactions
- Biofilm Development and Enzyme Activity in Wetland Substrates
- Nutrient Removal Pathways and Metabolic Gene Expression
- Biodegradation of Recalcitrant Pollutants in Wetland Bioreactors

Metabolic Engineering Biofuel Production Research

- Microbial Strain Development for Ethanol Production
- Enzyme Engineering for Cellulose Degradation
- Metabolic Pathway Optimization for Biofuel Intermediates
- Algae-Based Biohydrogen and Biocrude Production

- **Consolidated Bioprocessing for Direct Biofuel Synthesis**

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