

Applied Microbiology Internship Topics

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Active Categories

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Focused Areas

Internships
Internships

Applied Microbiology Internship Categories

AI Industrial Applied Microbiology Research https://internships.nthrys.com/applied-microbiology/ai-industrial-applied-microbiology-research	Machine Learning Food Microbiology Research https://internships.nthrys.com/applied-microbiology/machine-learning-food-microbiology-research
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Applied Bioremediation Microbiology Research https://internships.nthrys.com/applied-microbiology/applied-bioremediation-microbiology-research	AI Agricultural Applied Microbiology Research https://internships.nthrys.com/applied-microbiology/ai-agricultural-applied-microbiology-research
AI AMR in Applied Microbiology Research https://internships.nthrys.com/applied-microbiology/ai-amr-applied-microbiology-research	AI Phage Applied Microbiology Research https://internships.nthrys.com/applied-microbiology/ai-phage-applied-microbiology-research
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Wastewater Treatment Microbiology Research https://internships.nthrys.com/applied-microbiology/wastewater-treatment-microbiology-research	Soil Microbiome Diversity Field Research https://internships.nthrys.com/applied-microbiology/soil-microbiome-diversity-field-research
Cosmetics Microbial Safety Testing Research https://internships.nthrys.com/applied-microbiology/cosmetics-microbial-safety-testing-research	Brewing and Fermented Beverage Microbiology https://internships.nthrys.com/applied-microbiology/brewing-and-fermented-beverage-microbiology
Hospital-Acquired Infection Prevention Research https://internships.nthrys.com/applied-microbiology/hospital-acquired-infection-prevention-research	Microbial Enzyme Production Research https://internships.nthrys.com/applied-microbiology/microbial-enzyme-production-research
Food Spoilage Prediction Modeling Research https://internships.nthrys.com/applied-microbiology/food-spoilage-prediction-modeling-research	Pharmaceutical Sterility Assurance Research https://internships.nthrys.com/applied-microbiology/pharmaceutical-sterility-assurance-research
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Probiotic Strain Viability Assessment Research https://internships.nthrys.com/applied-microbiology/probiotic-strain-viability-assessment-research	Industrial Wastewater Microbial Treatment https://internships.nthrys.com/applied-microbiology/industrial-wastewater-microbial-treatment
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Pulp and Paper Industry Microbiology Research https://internships.nthrys.com/applied-microbiology/pulp-and-paper-industry-microbiology-research	Microbial Community DNA Metabarcoding Analysis https://internships.nthrys.com/applied-microbiology/microbial-community-dna-metabarcoding-analysis
Skin Microbiome Associated Disease Research https://internships.nthrys.com/applied-microbiology/skin-microbiome-associated-disease-research	Oil Industry Microbial Corrosion Prevention https://internships.nthrys.com/applied-microbiology/oil-industry-microbial-corrosion-prevention
Spice and Herb Microbial Safety Analysis https://internships.nthrys.com/applied-microbiology/spice-and-herb-microbial-safety-analysis	Vaginal Microbiome Dysbiosis Investigation https://internships.nthrys.com/applied-microbiology/vaginal-microbiome-dysbiosis-investigation

Applied Microbiology Internship Topics and Focused Areas

AI Industrial Applied Microbiology Research

- AI-Driven Microbial Strain Optimization
- Predictive Microbial Contamination Detection
- Machine Learning for Antibiotic Resistance Profiling
- Automated Microbial Ecosystem Modeling
- Deep Learning for Microbial Morphology and Classification

Machine Learning Food Microbiology Research

- Predictive Modeling of Microbial Spoilage in Perishable Foods
- Automated Pathogen Detection Using Computer Vision and Deep Learning
- Fermentation Process Optimization via Machine Learning
- Genomic Data Analysis for Foodborne Pathogen Identification
- Real-Time Microbial Risk Assessment in Food Processing Facilities

Applied Bioremediation Microbiology Research

- Heavy Metal Biosorption by Microbial Consortia
- Petroleum Hydrocarbon Degradation Pathways
- Xenobiotic Compound Biodegradation Engineering
- Biofilm-based Treatment Systems for Industrial Effluents
- Mycoremediation of Contaminated Substrates

AI Agricultural Applied Microbiology Research

- Microbial Pathogen Detection in Crop Systems
- Beneficial Soil Microbiome Characterization

- Biocontrol Agent Development and Testing
- Fermentation Optimization for Microbial Biopesticides
- Plant Microbiome Manipulation for Stress Resilience

AI Probiotic Development Research

- Strain Identification and Characterization
- In Vitro Efficacy Testing
- Fermentation Optimization and Scale-Up
- Formulation Development and Stability Studies
- Genomic Analysis and AI Model Development

Fermentation Optimization Bioprocess Research

- Microbial Strain Optimization for Enhanced Metabolite Production
- Bioreactor Process Parameter Development and Scale-Up
- Substrate Utilization and Media Formulation Studies
- Metabolic Pathway Analysis and Enzyme Kinetics in Fermentation
- Fed-Batch Fermentation Strategy Development and Control

Wastewater Treatment Microbiology Research

- Microbial Community Profiling in Activated Sludge Systems
- Isolation and Characterization of Novel Nitrifying Microorganisms
- Biofilm Formation and Extracellular Polymeric Substances (EPS) Analysis
- Antibiotic Resistance Gene Persistence in Wastewater Treatment Processes
- Enzymatic Degradation of Recalcitrant Organic Pollutants

Refrigerated Food Spoilage Microbiology

- Psychrophilic Bacterial Isolation and Characterization
- Lipid Oxidation and Rancidity Development in Refrigerated Foods
- Biofilm Formation on Food Contact Surfaces at Low Temperatures
- Pathogenic *Listeria monocytogenes* Survival and Proliferation in Refrigerated Environments
- Spoilage Metabolite Production and Sensory Quality Prediction in Chilled Products

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