

Aquatic Microbiology Internship Topics

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50
Active Categories

10
Focused Areas

Internships
Internships

Aquatic Microbiology Internship Categories

AI Freshwater Microbiome Ecology Research https://internships.nthrys.com/aquatic-microbiology/ai-freshwater-microbiome-ecology-research	Machine Learning Marine Microbial Diversity https://internships.nthrys.com/aquatic-microbiology/machine-learning-marine-microbial-diversity
AI Waterborne Pathogen Genomics Research https://internships.nthrys.com/aquatic-microbiology/ai-waterborne-pathogen-genomics-research	AI Cyanobacterial Bloom Prediction Research https://internships.nthrys.com/aquatic-microbiology/ai-cyanobacterial-bloom-prediction-research
AI Aquatic AMR Gene Flow Research https://internships.nthrys.com/aquatic-microbiology/ai-aquatic-amr-gene-flow-research	AI Sediment Microbiology Research https://internships.nthrys.com/aquatic-microbiology/ai-sediment-microbiology-research
AI Coral Reef Microbial Health Research https://internships.nthrys.com/aquatic-microbiology/ai-coral-reef-microbial-health-research	AI Biofilm Formation in Aquatic Systems https://internships.nthrys.com/aquatic-microbiology/ai-biofilm-formation-aquatic-systems
AI Phage-Microbe Dynamics in Water Research https://internships.nthrys.com/aquatic-microbiology/ai-phage-microbe-dynamics-water-research	AI Eutrophication Microbiology Research https://internships.nthrys.com/aquatic-microbiology/ai-eutrophication-microbiology-research
Metagenomic Analysis of Drinking Water Treatment https://internships.nthrys.com/aquatic-microbiology/metagenomic-analysis-drinking-water-treatment	Antibiotic Resistance Mechanisms in Aquatic Bacteria https://internships.nthrys.com/aquatic-microbiology/antibiotic-resistance-mechanisms-aquatic-bacteria
Bioremediation of Polluted Aquatic Ecosystems https://internships.nthrys.com/aquatic-microbiology/bioremediation-polluted-aquatic-ecosystems	Microbial Community Shifts in Estuary Salinity Gradients https://internships.nthrys.com/aquatic-microbiology/microbial-community-shifts-estuary-salinity-gradients
Quorum Sensing in Pathogenic Vibrio Species https://internships.nthrys.com/aquatic-microbiology/quorum-sensing-pathogenic-vibrio-species	Heterotrophic Nitrification in Aquatic Environments https://internships.nthrys.com/aquatic-microbiology/heterotrophic-nitrification-aquatic-environments
Microplastic-Associated Biofilm Microbiology https://internships.nthrys.com/aquatic-microbiology/microplastic-associated-biofilm-microbiology	Sulfate-Reducing Bacteria in Anoxic Lake Sediments https://internships.nthrys.com/aquatic-microbiology/sulfate-reducing-bacteria-anoxic-lake-sediments
Temperature-Dependent Pathogen Survival in Water https://internships.nthrys.com/aquatic-microbiology/temperature-dependent-pathogen-survival-water	Probiotic Bacteria Development for Aquaculture https://internships.nthrys.com/aquatic-microbiology/probiotic-bacteria-development-aquaculture
Viral Metagenomics of Natural Water Bodies https://internships.nthrys.com/aquatic-microbiology/viral-metagenomics-natural-water-bodies	Microbial Corrosion of Water Distribution Pipes https://internships.nthrys.com/aquatic-microbiology/microbial-corrosion-water-distribution-pipes
Fungal Community Dynamics in Freshwater Ecosystems https://internships.nthrys.com/aquatic-microbiology/fungal-community-dynamics-freshwater-ecosystems	Photosynthetic Microbial Communities in Stratified Lakes https://internships.nthrys.com/aquatic-microbiology/photosynthetic-microbial-communities-stratified-lakes
Bacterial Production and Respiration Rate Measurements https://internships.nthrys.com/aquatic-microbiology/bacterial-production-respiration-rate-measurements	Archaea Diversity in Marine and Freshwater Systems https://internships.nthrys.com/aquatic-microbiology/archaea-diversity-marine-freshwater-systems
Dissolved Organic Matter Microbial Degradation Kinetics https://internships.nthrys.com/aquatic-microbiology/dissolved-organic-matter-microbial-degradation-kinetics	Coliform and Fecal Indicator Bacteria Monitoring https://internships.nthrys.com/aquatic-microbiology/coliform-fecal-indicator-bacteria-monitoring
Microbial Community Assembly in Experimental Mesocosms https://internships.nthrys.com/aquatic-microbiology/microbial-community-assembly-experimental-mesocosms	Manganese Oxidation by Aquatic Microorganisms https://internships.nthrys.com/aquatic-microbiology/manganese-oxidation-by-aquatic-microorganisms
Biotoxin Production Monitoring in Harmful Algal Blooms https://internships.nthrys.com/aquatic-microbiology/biotoxin-production-monitoring-harmful-algal-blooms	Bacterial Extracellular Polymeric Substances Characterization https://internships.nthrys.com/aquatic-microbiology/bacterial-extracellular-polymeric-substances-characterization
Nutrient Limitation in Oligotrophic Ocean Microbial Communities https://internships.nthrys.com/aquatic-microbiology/nutrient-limitation-oligotrophic-ocean-microbial-communities	Iron-Oxidizing Bacterial Communities in Acidic Mine Drainage https://internships.nthrys.com/aquatic-microbiology/iron-oxidizing-bacterial-communities-acidic-mine-drainage
Microbial Enzymatic Degradation of Xenobiotic Compounds https://internships.nthrys.com/aquatic-microbiology/microbial-enzymatic-degradation-xenobiotic-compounds	Ammonia-Oxidizing Archaea in Aquatic Ecosystems https://internships.nthrys.com/aquatic-microbiology/ammonia-oxidizing-archaea-aquatic-ecosystems

Microbial Predation Dynamics Using Flow Cytometry https://internships.nthrys.com/aquatic-microbiology/microbial-predation-dynamics-using-flow-cytometry	Anaerobic Ammonium Oxidation in Water Column Studies https://internships.nthrys.com/aquatic-microbiology/anaerobic-ammonium-oxidation-water-column-studies
Polymer-Degrading Microbes in Aquatic Environments https://internships.nthrys.com/aquatic-microbiology/polymer-degrading-microbes-aquatic-environments	Methanotrophic Community Characterization in Freshwater https://internships.nthrys.com/aquatic-microbiology/methanotrophic-community-characterization-freshwater
Microbial Community Response to Osmotic Stress https://internships.nthrys.com/aquatic-microbiology/microbial-community-response-osmotic-stress	Bacteriophage Host Range and Infection Dynamics https://internships.nthrys.com/aquatic-microbiology/bacteriophage-host-range-infection-dynamics
Sulfur Cycling Microorganisms in Coastal Sediments https://internships.nthrys.com/aquatic-microbiology/sulfur-cycling-microorganisms-coastal-sediments	Microbial Community Fingerprinting of Polluted Urban Streams https://internships.nthrys.com/aquatic-microbiology/microbial-community-fingerprinting-polluted-urban-streams
Thermophilic Bacteria Isolation from Geothermal Spring Waters https://internships.nthrys.com/aquatic-microbiology/thermophilic-bacteria-isolation-geothermal-spring-waters	Photosynthetic Efficiency of Aquatic Cyanobacteria Strains https://internships.nthrys.com/aquatic-microbiology/photosynthetic-efficiency-aquatic-cyanobacteria-strains
Microbial Community Succession Following Water Perturbations https://internships.nthrys.com/aquatic-microbiology/microbial-community-succession-water-perturbations	Phosphate-Accumulating Bacteria in Wastewater Biofilms https://internships.nthrys.com/aquatic-microbiology/phosphate-accumulating-bacteria-wastewater-biofilms
Microbial DNA Repair Mechanisms Under UV Stress https://internships.nthrys.com/aquatic-microbiology/microbial-dna-repair-mechanisms-under-uv-stress	Denitrifying Community Structure in Hypoxic Zones https://internships.nthrys.com/aquatic-microbiology/denitrifying-community-structure-hypoxic-zones

Aquatic Microbiology Internship Topics and Focused Areas

Antibiotic Resistance Mechanisms in Aquatic Bacteria

- Phenotypic and Genotypic Characterization of Antibiotic-Resistant Aquatic Bacteria
- Horizontal Gene Transfer and Plasmid-Mediated Resistance in Aquatic Microbial Communities
- Enzymatic Mechanisms of Antibiotic Resistance: Beta-Lactamases and Beyond
- Biofilm Formation and Antibiotic Resistance in Aquatic Biofilms
- Selection Pressure and Evolutionary Dynamics of Antibiotic Resistance in Aquatic Systems

Anaerobic Ammonium Oxidation in Water Column Studies

- Anammox Bacterial Community Profiling
- Nitrogen Cycling Kinetics in Oxygen Minimum Zones
- Environmental Factors Affecting Anammox Performance
- Metabolic Byproduct Analysis and Nutrient Release
- Seasonal and Spatial Variation in Anammox Activity

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