

Food Microbiology Internship Topics

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50
Active Categories

45
Focused Areas

Internships
Internships

Food Microbiology Internship Categories

AI Foodborne Pathogen Genomics Research https://internships.nthrys.com/food-microbiology/ai-foodborne-pathogen-genomics-research	Machine Learning Food Spoilage Research https://internships.nthrys.com/food-microbiology/machine-learning-food-spoilage-research
AI Fermented Food Microbiome Research https://internships.nthrys.com/food-microbiology/ai-fermented-food-microbiome-res	AI Food AMR Tracking Research https://internships.nthrys.com/food-microbiology/ai-food-amr-tracking-research
AI Probiotic Research https://internships.nthrys.com/food-microbiology/ai-probiotic-research	AI Rapid Food Pathogen Detection Research https://internships.nthrys.com/food-microbiology/ai-rapid-food-pathogen-detection-research
AI HACCP System Research https://internships.nthrys.com/food-microbiology/ai-haccp-system-research	AI Biofilm Food Safety Research https://internships.nthrys.com/food-microbiology/ai-biofilm-food-safety-research
AI Novel Antimicrobial Food Research https://internships.nthrys.com/food-microbiology/ai-novel-antimicrobial-food-research	AI Plant-Based Food Microbiology Research https://internships.nthrys.com/food-microbiology/ai-plant-based-food-microbiology-research
Microbial Contamination Mapping Cold Chain https://internships.nthrys.com/food-microbiology/microbial-contamination-mapping-cold-chain	Pathogenic E. coli Isolation Methods https://internships.nthrys.com/food-microbiology/pathogenic-e-coli-isolation-methods
Listeria monocytogenes Growth Kinetics https://internships.nthrys.com/food-microbiology/listeria-monocytogenes-growth-kinetics	Salmonella Detection Poultry Processing https://internships.nthrys.com/food-microbiology/salmonella-detection-poultry-processing
Campylobacter Thermal Resistance Analysis https://internships.nthrys.com/food-microbiology/campylobacter-thermal-resistance-analysis	Spore-Forming Bacteria Dairy Processing https://internships.nthrys.com/food-microbiology/spore-forming-bacteria-dairy-processing
Mycotoxin-Producing Fungi Detection https://internships.nthrys.com/food-microbiology/mycotoxin-producing-fungi-detection	Lactic Acid Bacteria Characterization https://internships.nthrys.com/food-microbiology/lactic-acid-bacteria-characterization
Yeast Contamination Beverage Industry https://internships.nthrys.com/food-microbiology/yeast-contamination-beverage-industry	Vibrio Species Seafood Surveillance https://internships.nthrys.com/food-microbiology/vibrio-species-seafood-surveillance
Staphylococcus aureus Enterotoxin Production https://internships.nthrys.com/food-microbiology/staphylococcus-aureus-enterotoxin-production	Biofilm Formation Food Contact Surfaces https://internships.nthrys.com/food-microbiology/biofilm-formation-food-contact-surfaces
Virulence Gene Expression Foodborne Pathogens https://internships.nthrys.com/food-microbiology/virulence-gene-expression-foodborne-pathogens	Cross-Contamination Prevention Validation https://internships.nthrys.com/food-microbiology/cross-contamination-prevention-validation
Microbial Load Meat Processing Plant https://internships.nthrys.com/food-microbiology/microbial-load-meat-processing-plant	Antibiotic Resistance Testing Foodborne Bacteria https://internships.nthrys.com/food-microbiology/antibiotic-resistance-testing-foodborne-bacteria
Starter Culture Selection Fermentation https://internships.nthrys.com/food-microbiology/starter-culture-selection-fermentation	Water Quality Microbiological Analysis https://internships.nthrys.com/food-microbiology/water-quality-microbiological-analysis
Vegetable Pathogenic Bacteria Survival https://internships.nthrys.com/food-microbiology/vegetable-pathogenic-bacteria-survival	Cheese Ripening Microbial Community https://internships.nthrys.com/food-microbiology/cheese-ripening-microbial-community
Probiotic Viability Shelf-Life Study https://internships.nthrys.com/food-microbiology/probiotic-viability-shelf-life-study	Gluten-Associated Microbial Contamination https://internships.nthrys.com/food-microbiology/gluten-associated-microbial-contamination
Acidification Rate Fermented Vegetables https://internships.nthrys.com/food-microbiology/acidification-rate-fermented-vegetables	Cleaning Validation Microbial Residues https://internships.nthrys.com/food-microbiology/cleaning-validation-microbial-residues

Chocolate Processing Microbiological Safety https://internships.nthrys.com/food-microbiology/chocolate-processing-microbiological-safety	Nuts Oil Rancidity Microbial Role https://internships.nthrys.com/food-microbiology/nuts-oil-rancidity-microbial-role
Seafood Spoilage Microbiota Profiling https://internships.nthrys.com/food-microbiology/seafood-spoilage-microbiota-profiling	Food Additive Microbial Stability https://internships.nthrys.com/food-microbiology/food-additive-microbial-stability
Bakery Product Mold Contamination Prevention https://internships.nthrys.com/food-microbiology/bakery-product-mold-contamination-prevention	Enzyme Activity Heat-Treated Foods https://internships.nthrys.com/food-microbiology/enzyme-activity-heat-treated-foods
Spice Microbial Load Characterization https://internships.nthrys.com/food-microbiology/spice-microbial-load-characterization	Fruit Juice Processing Microorganisms https://internships.nthrys.com/food-microbiology/fruit-juice-processing-microorganisms
Seafood Histamine-Producing Bacteria https://internships.nthrys.com/food-microbiology/seafood-histamine-producing-bacteria	Sandwich Shelf-Life Microbial Prediction https://internships.nthrys.com/food-microbiology/sandwich-shelf-life-microbial-prediction
Mushroom Cultivation Bacterial Contamination https://internships.nthrys.com/food-microbiology/mushroom-cultivation-bacterial-contamination	Coffee Fermentation Microbial Diversity https://internships.nthrys.com/food-microbiology/coffee-fermentation-microbial-diversity
Microbial Testing Method Validation https://internships.nthrys.com/food-microbiology/microbial-testing-method-validation	Processing Environment Persistent Pathogens https://internships.nthrys.com/food-microbiology/processing-environment-persistent-pathogens
Honey Bacterial Spore Content Analysis https://internships.nthrys.com/food-microbiology/honey-bacterial-spore-content-analysis	Meat Marinade Pathogen Inactivation https://internships.nthrys.com/food-microbiology/meat-marinade-pathogen-inactivation

Food Microbiology Internship Topics and Focused Areas

AI Foodborne Pathogen Genomics Research

- Whole Genome Sequencing Analysis of Pathogenic Bacteria
- Machine Learning Models for Pathogen Detection and Classification
- Phylogenetic and Epidemiological Outbreak Investigations
- Antimicrobial Resistance Gene Profiling and Characterization
- Comparative Genomics and Virulence Factor Identification

AI Fermented Food Microbiome Research

- Metagenomic Analysis of Fermented Food Microbiomes
- Machine Learning Classification of Fermentation Microbes
- Microbial Metabolite Production Prediction Using AI
- Fermentation Quality Control and Spoilage Detection
- Microbial Strain Isolation and Genomic Characterization

AI Novel Antimicrobial Food Research

- AI-Driven Pathogen Detection in Food Matrices
- Natural Antimicrobial Compound Screening and Optimization
- Microbiome Analysis and Predictive Modeling for Food Safety
- Smart Packaging Solutions with AI-Integrated Antimicrobial Coatings
- Deep Learning for Antimicrobial Resistance Prediction and Gene Analysis

Spore-Forming Bacteria Dairy Processing

- Bacillus and Clostridium Contamination Detection in Dairy Products
- Thermal Resistance and Inactivation Kinetics of Dairy Spores

- Spore Germination and Vegetative Growth in Dairy Environments
- Biofilm Formation by Spore-Forming Bacteria on Dairy Processing Equipment
- Spoilage Characteristics and Metabolic Byproducts of Dairy Spore-Formers

Mycotoxin-Producing Fungi Detection

- Aflatoxin Detection in Agricultural Commodities
- Ochratoxin A Monitoring in Coffee and Cereals
- Molecular Identification of Mycotoxigenic Fungal Species
- Fumonisin Production by Fusarium Species in Corn
- Development of Rapid Screening Methods for Multi-Mycotoxin Detection

Yeast Contamination Beverage Industry

- Yeast Species Identification and Characterization
- Fermentation Kinetics and Wild Yeast Impact
- Contamination Detection and Monitoring Methods
- Yeast Survival Under Processing Conditions
- Biofilm Formation and Equipment Surface Colonization

Biofilm Formation Food Contact Surfaces

- Biofilm Characterization on Stainless Steel Surfaces
- Antimicrobial Surface Coating Efficacy Testing
- Environmental Factors Influencing Biofilm Development
- Pathogenic and Spoilage Microorganism Biofilms in Food Systems
- Biofilm Removal and Sanitation Protocol Development

Food Additive Microbial Stability

- Antimicrobial Efficacy Testing of Natural Food Preservatives
- Microbial Resistance Development to Food Additives
- Synergistic Effects of Combined Food Additives on Microbial Control
- Thermal Stability of Antimicrobial Food Additives
- Microbial Adaptation in Preserved Food Products During Shelf Life

Bakery Product Mold Contamination Prevention

- Mold Identification and Taxonomy in Bakery Environments
- Antifungal Preservative Efficacy Testing
- Water Activity and Moisture Control in Mold Prevention
- Sanitation Protocol Development and Validation
- Packaging Material Impact on Mold Contamination

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