

Bacteriophage Genomics Internship Topics

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Active Categories

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Focused Areas

Internships
Internships

Bacteriophage Genomics Internship Categories

AI Phage Genome Assembly & Annotation Research https://internships.nthrys.com/bacteriophage-genomics/ai-phage-genome-assembly-annotation-research	Machine Learning for Phage-Host Range Prediction https://internships.nthrys.com/bacteriophage-genomics/machine-learning-phage-host-range-prediction
AI Phage Tail Fiber Engineering Research https://internships.nthrys.com/bacteriophage-genomics/ai-phage-tail-fiber-engineering-research	AI Phage Therapy Clinical Genomics Research https://internships.nthrys.com/bacteriophage-genomics/ai-phage-therapy-clinical-genomics-research
AI Phage-Encoded AMR Detection Research https://internships.nthrys.com/bacteriophage-genomics/ai-phage-encoded-amr-detection-research	AI Phage Diversity in Environmental Samples https://internships.nthrys.com/bacteriophage-genomics/ai-phage-diversity-environmental-samples
AI CRISPR-Phage Arms Race Research https://internships.nthrys.com/bacteriophage-genomics/ai-crispr-phage-arms-race-research	AI Phage Lysogeny & Integration Research https://internships.nthrys.com/bacteriophage-genomics/ai-phage-lysogeny-integration-research
AI Giant Phage Biology Research https://internships.nthrys.com/bacteriophage-genomics/ai-giant-phage-biology-research	AI Phage-Based Diagnostics Development Research https://internships.nthrys.com/bacteriophage-genomics/ai-phage-based-diagnostics-development
Phage Genome Sequencing Technology Optimization https://internships.nthrys.com/bacteriophage-genomics/phage-genome-sequencing-technology-optimization	Comparative Genomics of Mycobacteriophages https://internships.nthrys.com/bacteriophage-genomics/comparative-genomics-of-mycobacteriophages
Phage Structural Protein Prediction Research https://internships.nthrys.com/bacteriophage-genomics/phage-structural-protein-prediction-research	Horizontal Gene Transfer in Phage Genomes https://internships.nthrys.com/bacteriophage-genomics/horizontal-gene-transfer-in-phage-genomes
Phage Promoter and Terminator Identification https://internships.nthrys.com/bacteriophage-genomics/phage-promoter-and-terminator-identification	Thermophilic Phage Genome Characterization https://internships.nthrys.com/bacteriophage-genomics/thermophilic-phage-genome-characterization
Phage Auxiliary Metabolic Genes Research https://internships.nthrys.com/bacteriophage-genomics/phage-auxiliary-metabolic-genes-research	Single-Stranded DNA Phage Genomics https://internships.nthrys.com/bacteriophage-genomics/single-stranded-dna-phage-genomics
Phage Genome Synteny Analysis Methods https://internships.nthrys.com/bacteriophage-genomics/phage-genome-synteny-analysis-methods	RNA Phage Genome Organization Study https://internships.nthrys.com/bacteriophage-genomics/rna-phage-genome-organization-study
Phage Antibiotic Resistance Gene Mapping https://internships.nthrys.com/bacteriophage-genomics/phage-antibiotic-resistance-gene-mapping	Cyanophage Genome Diversity Research https://internships.nthrys.com/bacteriophage-genomics/cyanophage-genome-diversity-research
Phage Genome Mutation Rate Analysis https://internships.nthrys.com/bacteriophage-genomics/phage-genome-mutation-rate-analysis	Temperate Phage Integration Site Mapping https://internships.nthrys.com/bacteriophage-genomics/temperate-phage-integration-site-mapping
Phage Head Packaging Signal Research https://internships.nthrys.com/bacteriophage-genomics/phage-head-packaging-signal-research	Marine Metagenomic Phage Identification https://internships.nthrys.com/bacteriophage-genomics/marine-metagenomic-phage-identification
Phage Recombination Hot Spot Analysis https://internships.nthrys.com/bacteriophage-genomics/phage-recombination-hot-spot-analysis	Obligate Lytic Phage Genome Comparison https://internships.nthrys.com/bacteriophage-genomics/obligate-lytic-phage-genome-comparison
Phage Endolysin Gene Discovery Research https://internships.nthrys.com/bacteriophage-genomics/phage-endolysin-gene-discovery-research	Pseudomonas Phage Genomic Diversity Study https://internships.nthrys.com/bacteriophage-genomics/pseudomonas-phage-genomic-diversity-study
Phage Genome Plasticity and Mosaicism https://internships.nthrys.com/bacteriophage-genomics/phage-genome-plasticity-and-mosaicism	Soil Microbiome Phage Genome Survey https://internships.nthrys.com/bacteriophage-genomics/soil-microbiome-phage-genome-survey
Phage DNA Methylation Pattern Analysis https://internships.nthrys.com/bacteriophage-genomics/phage-dna-methylation-pattern-analysis	Streptomyces Phage Genome Characterization https://internships.nthrys.com/bacteriophage-genomics/streptomyces-phage-genome-characterization

Phage Virulence Factor Gene Identification https://internships.nthrys.com/bacteriophage-genomics/phage-virulence-factor-gene-identification	Lactobacillus Phage Genomic Analysis https://internships.nthrys.com/bacteriophage-genomics/lactobacillus-phage-genomic-analysis
Phage Genome Biased Codon Usage Study https://internships.nthrys.com/bacteriophage-genomics/phage-genome-biased-codon-usage-study	Biofilm-Degrading Phage Genome Research https://internships.nthrys.com/bacteriophage-genomics/biofilm-degrading-phage-genome-research
Phage Genome Size Evolution Analysis https://internships.nthrys.com/bacteriophage-genomics/phage-genome-size-evolution-analysis	Prophage Excision and Reactivation Genomics https://internships.nthrys.com/bacteriophage-genomics/prophage-excision-and-reactivation-genomics
Phage Restriction-Modification System Research https://internships.nthrys.com/bacteriophage-genomics/phage-restriction-modification-system-research	Environmental Phage Host Range Genomics https://internships.nthrys.com/bacteriophage-genomics/environmental-phage-host-range-genomics
Phage Portal Protein Gene Analysis https://internships.nthrys.com/bacteriophage-genomics/phage-portal-protein-gene-analysis	Actinophage Genome Assembly Pipeline https://internships.nthrys.com/bacteriophage-genomics/actinophage-genome-assembly-pipeline
Phage Toxin-Antitoxin System Genomics https://internships.nthrys.com/bacteriophage-genomics/phage-toxin-antitoxin-system-genomics	Deep-Sea Hydrothermal Phage Genomics https://internships.nthrys.com/bacteriophage-genomics/deep-sea-hydrothermal-phage-genomics
Phage Genome Annotation Quality Assessment https://internships.nthrys.com/bacteriophage-genomics/phage-genome-annotation-quality-assessment	Mycobacterium Phage Population Genomics https://internships.nthrys.com/bacteriophage-genomics/mycobacterium-phage-population-genomics
Phage-Bacterial Genome Codon Adaptation https://internships.nthrys.com/bacteriophage-genomics/phage-bacterial-genome-codon-adaptation	Oral Microbiome Phage Genome Discovery https://internships.nthrys.com/bacteriophage-genomics/oral-microbiome-phage-genome-discovery

Bacteriophage Genomics Internship Topics and Focused Areas

AI Phage Genome Assembly & Annotation Research

- Deep Learning Models for Phage Contig Assembly
- Automated Gene Prediction and Functional Annotation Pipeline
- Structural Variant Detection in Phage Genomes
- CRISPR-Phage Interaction Prediction Using Bioinformatics
- Phage Taxonomy Classification via Genomic Profiling

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