

Genomics Internship Topics

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51

Active Categories

15

Focused Areas

Internships
Internships

Genomics Internship Categories

AI Whole Genome Sequencing Analysis Research https://internships.nthrys.com/genomics/ai-whole-genome-sequencing-analysis	Machine Learning Structural Variant Research https://internships.nthrys.com/genomics/machine-learning-structural-variant-research
AI Pan-Genome Biology Research https://internships.nthrys.com/genomics/ai-pan-genome-biology-research	AI Long-Read Genomics Research https://internships.nthrys.com/genomics/ai-long-read-genomics-research
AI Cancer Genomics Research https://internships.nthrys.com/genomics/ai-cancer-genomics-research	AI Population Genomics Research https://internships.nthrys.com/genomics/ai-population-genomics-research
AI Ancient Genomics Research https://internships.nthrys.com/genomics/ai-ancient-genomics-research	AI Spatial Genomics Research https://internships.nthrys.com/genomics/ai-spatial-genomics-research
AI Epigenomics Research https://internships.nthrys.com/genomics/ai-epigenomics-research	AI Functional Genomics Research https://internships.nthrys.com/genomics/ai-functional-genomics-research
CRISPR Gene Editing Efficiency Research https://internships.nthrys.com/genomics/crispr-gene-editing-efficiency-research	Metagenomics Microbial Community Analysis https://internships.nthrys.com/genomics/metagenomics-microbial-community-analysis
RNA-Seq Transcriptome Expression Profiling https://internships.nthrys.com/genomics/rna-seq-transcriptome-expression-profiling	Copy Number Variation Detection Methods https://internships.nthrys.com/genomics/copy-number-variation-detection-methods
Chromatin Immunoprecipitation Sequencing Research https://internships.nthrys.com/genomics/chromatin-immunoprecipitation-sequencing-research	Single-Cell RNA Sequencing Analysis https://internships.nthrys.com/genomics/single-cell-rna-sequencing-analysis
Whole Exome Sequencing Variant Calling https://internships.nthrys.com/genomics/whole-exome-sequencing-variant-calling	Pharmacogenomics Drug Response Prediction https://internships.nthrys.com/genomics/pharmacogenomics-drug-response-prediction
Pathogen Genomics Surveillance Research https://internships.nthrys.com/genomics/pathogen-genomics-surveillance-research	Genome Assembly Quality Assessment https://internships.nthrys.com/genomics/genome-assembly-quality-assessment
Disease Association Genome-Wide Studies https://internships.nthrys.com/genomics/disease-association-genome-wide-studies	Noncoding RNA Function Discovery https://internships.nthrys.com/genomics/noncoding-rna-function-discovery
Mitochondrial Genomics Evolution Research https://internships.nthrys.com/genomics/mitochondrial-genomics-evolution-research	Syntenic Analysis Comparative Genomics https://internships.nthrys.com/genomics/syntenic-analysis-comparative-genomics
Hi-C Chromosome Conformation Capture https://internships.nthrys.com/genomics/hi-c-chromosome-conformation-capture	Next-Generation Sequencing Data Analysis https://internships.nthrys.com/genomics/next-generation-sequencing-data-analysis
Personalized Medicine Genomic Profiling https://internships.nthrys.com/genomics/personalized-medicine-genomic-profiling	Transposable Element Annotation Research https://internships.nthrys.com/genomics/transposable-element-annotation-research
Haploinsufficiency Gene Dosage Analysis https://internships.nthrys.com/genomics/haploinsufficiency-gene-dosage-analysis	Metabolic Pathway Genomic Reconstruction https://internships.nthrys.com/genomics/metabolic-pathway-genomic-reconstruction
Tumor Mutational Burden Analysis https://internships.nthrys.com/genomics/tumor-mutational-burden-analysis	Allele-Specific Expression Analysis https://internships.nthrys.com/genomics/allele-specific-expression-analysis

Quantitative Trait Locus Mapping https://internships.nthrys.com/genomics/quantitative-trait-locus-mapping	Bacterial Genome Annotation Pipeline https://internships.nthrys.com/genomics/bacterial-genome-annotation-pipeline
Host-Pathogen Interaction Genomics https://internships.nthrys.com/genomics/host-pathogen-interaction-genomics	Recombination Hotspot Identification https://internships.nthrys.com/genomics/recombination-hotspot-identification
Meiomic Recombination Rate Analysis https://internships.nthrys.com/genomics/meiomic-recombination-rate-analysis	Viral Quasispecies Diversity Study https://internships.nthrys.com/genomics/viral-quasispecies-diversity-study
Gene Regulatory Network Reconstruction https://internships.nthrys.com/genomics/gene-regulatory-network-reconstruction	Phenotype Prediction From Genotype https://internships.nthrys.com/genomics/phenotype-prediction-from-genotype
Homologous Gene Family Clustering https://internships.nthrys.com/genomics/homologous-gene-family-clustering	Antimicrobial Resistance Gene Detection https://internships.nthrys.com/genomics/antimicrobial-resistance-gene-detection
Mosaic Genome Aneuploidy Research https://internships.nthrys.com/genomics/mosaic-genome-aneuploidy-research	Chromatin State Transition Modeling https://internships.nthrys.com/genomics/chromatin-state-transition-modeling
Orphan Gene Function Assignment https://internships.nthrys.com/genomics/orphan-gene-function-assignment	Polyploid Genome Stability Evolution https://internships.nthrys.com/genomics/polyploid-genome-stability-evolution
Somatic Mutation Clonal Architecture https://internships.nthrys.com/genomics/somatic-mutation-clonal-architecture	Promoter Variant Regulatory Impact https://internships.nthrys.com/genomics/promoter-variant-regulatory-impact
Horizontal Gene Transfer Detection Study https://internships.nthrys.com/genomics/horizontal-gene-transfer-detection-study	Genomic Inversion Polymorphism Analysis https://internships.nthrys.com/genomics/genomic-inversion-polymorphism-analysis
Penetrance Expressivity Genotype Study https://internships.nthrys.com/genomics/penetrance-expressivity-genotype-study	

Genomics Internship Topics and Focused Areas

AI Whole Genome Sequencing Analysis Research

- Variant Calling Pipeline Development
- Machine Learning for Pathogenic Variant Classification
- Copy Number Variation Detection Using AI
- Genome Assembly and Sequence Alignment Optimization
- Population Genomics and Ancestry Analysis

AI Population Genomics Research

- Variant Annotation and Functional Prediction
- Population Stratification and Ancestry Analysis
- Genome-Wide Association Study (GWAS) Pipeline Development
- Polygenic Risk Score Construction and Validation
- Single-Cell Population Genomics and Multi-omics Integration

Next-Generation Sequencing Data Analysis

- Whole Genome Sequencing (WGS) Pipeline Development
- RNA-Seq Transcriptome Analysis and Gene Expression Profiling
- Variant Interpretation and Functional Annotation
- Single-Cell RNA Sequencing (scRNA-seq) Data Analysis

- **Metagenomic and Microbial Community Analysis**

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