

Functional Genomics Summer Internships

Join Functional Genomics summer internships to explore the study of gene functions and interactions using genomic tools, focusing on transcriptomics, epigenomics, and the use of CRISPR technology to understand gene regulation and expression.

Focussed Areas under Functional Genomics Summer Internship

1. Gene function analysis using CRISPR-Cas systems
2. Transcriptomics and gene expression profiling
3. Functional annotation of genomic sequences
4. Epigenomics and gene regulation studies
5. Gene-environment interactions in functional genomics
6. Genome-wide association studies (GWAS)
7. Single-cell genomics in functional genomics research
8. Bioinformatics tools for functional genomics analysis
9. Functional genomics in cancer research
10. Functional genomics in agriculture and plant biology
11. Integration of multi-omics data in functional genomics
12. RNA interference (RNAi) for gene function studies
13. Functional analysis of non-coding RNAs
14. Proteogenomics: linking gene and protein function
15. Gene regulatory networks and their impact on phenotypes
16. Functional genomics in disease research and therapeutics
17. Systems biology approaches in functional genomics
18. Genome editing technologies for functional genomics
19. High-throughput screening for gene function discovery
20. Pharmacogenomics and personalized medicine applications

Protocols Covered across various focussed areas under Functional Genomics Summer Internship

1. CRISPR-Cas gene editing protocols
2. RNA sequencing for transcriptomic analysis
3. Functional annotation of genomic regions using bioinformatics
4. Epigenetic profiling protocols for gene regulation studies
5. Genome-wide association study (GWAS) methodologies
6. Single-cell RNA sequencing techniques

7. Multi-omics data integration in functional genomics
8. RNA interference (RNAi) gene silencing protocols
9. Functional genomics approaches for cancer research
10. Gene regulatory network analysis techniques

Duration: 5, 10, 15, 20, and 30 Days

Note: Please cross confirm whether internship slots for this field are available before joining.

[Click Here for Functional Genomics Summer Internship Fees](#)

Application Process and Other info