

Applied Genomics Summer Internships

Explore Applied Genomics summer internships focused on applying genomic techniques to study plant and animal genetics, using sequencing technologies to address agricultural and environmental challenges.

Focussed Areas under Applied Genomics Summer Internship

1. Genome sequencing of summer crops
2. Application of genomics in animal breeding
3. Genomic selection for heat tolerance
4. Functional genomics in plant stress response
5. Marker-assisted selection in crop improvement
6. Gene expression analysis using RNA-seq
7. Genome-wide association studies (GWAS)
8. CRISPR applications in genomics
9. Epigenomics of summer crop resilience
10. Microbial genomics in agriculture
11. Next-generation sequencing in applied genomics
12. Comparative genomics in agriculture
13. Genomic selection in livestock breeding
14. Metagenomics of soil microbes
15. Transcriptomics of heat-stressed plants
16. Bioinformatics tools for genomics analysis
17. Environmental genomics in agriculture
18. Genetic diversity analysis in crops and animals
19. Genome annotation and data mining
20. Systems biology in applied genomics

Protocols Covered across various focussed areas under Applied Genomics Summer Internship

1. Genome sequencing and data analysis
2. Marker-assisted selection pipelines
3. CRISPR gene editing for crop and animal improvement
4. RNA-seq data analysis for gene expression
5. GWAS analysis for trait mapping
6. Functional genomics using qPCR
7. Comparative genomics workflow

8. Epigenetic profiling protocols
9. Next-generation sequencing library preparation
10. Transcriptomic analysis of heat stress response

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 Applied Genomics Summer Internship Fees](#)

Application Process and Other info