

## Genetics Summer Internships

Join Genetics summer internships to explore the science of genes, heredity, and variation in living organisms, focusing on molecular genetics, population genetics, gene regulation, and the latest research in genomics and biotechnology.

### Focussed Areas under Genetics Summer Internship

1. Molecular genetics and gene regulation
2. Population genetics and evolutionary biology
3. Genetic mapping and linkage analysis
4. Gene editing technologies (CRISPR, TALENs)
5. Genetic disorders and gene therapy
6. Epigenetics and gene expression regulation
7. Genetic variation and polymorphisms
8. Genomic sequencing and data analysis
9. Plant and animal breeding genetics
10. Functional genomics and gene function studies
11. Genetic engineering and transgenic organisms
12. Gene-environment interactions in genetic expression
13. Genetics of cancer and other diseases
14. Gene regulatory networks and systems genetics
15. Genetic diversity in populations and conservation genetics
16. Genetic biomarkers for disease prediction
17. Pharmacogenetics and personalized medicine
18. Gene cloning and recombinant DNA technology
19. Gene silencing technologies (RNAi, siRNA)
20. Genetics in agriculture and food security

### Protocols Covered across various focussed areas under Genetics Summer Internship

1. CRISPR-Cas9 gene editing protocols
2. Genetic mapping and linkage analysis methods
3. PCR and genotyping techniques for genetic variation
4. Epigenetic profiling methods in gene regulation studies
5. Genome sequencing and annotation techniques
6. Gene expression analysis using RNA sequencing
7. Gene cloning protocols for genetic engineering

8. RNA interference and gene silencing protocols
9. Gene therapy experimental designs
10. Genetic diversity assessment methods in population genetics

**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 Genetics Summer Internship Fees](#)

Application Process and Other info