

## **Molecular Genetics Summer Internships**

Join Molecular Genetics summer internships to explore the structure, function, and inheritance of genes at a molecular level, focusing on gene expression, mutations, DNA replication, and genetic manipulation techniques for research and medical applications.

### **Focussed Areas under Molecular Genetics Summer Internship**

1. Gene structure and function in molecular genetics
2. Molecular mechanisms of DNA replication and repair
3. Gene mutations and their consequences
4. Regulation of gene expression and transcription
5. Molecular techniques in genetic engineering
6. Molecular genetics in hereditary diseases
7. CRISPR and genome editing technologies
8. Gene cloning and recombinant DNA technology
9. Gene silencing and RNA interference
10. Epigenetics and gene regulation mechanisms
11. Molecular genetics in cancer research
12. Genetic testing and molecular diagnostics
13. Molecular genetics in prenatal screening and therapy
14. Population genetics and genetic diversity studies
15. Gene therapy approaches for genetic disorders
16. Applications of molecular genetics in agriculture
17. Molecular evolution and phylogenetics
18. Bioinformatics tools for genetic data analysis
19. Gene-environment interactions in molecular genetics
20. Molecular genetics in forensic science

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

1. DNA extraction and amplification techniques
2. CRISPR gene editing protocols
3. Gene expression analysis using qPCR and microarrays
4. Molecular cloning and recombinant DNA techniques
5. RNA interference and gene silencing workflows
6. Molecular diagnostics for hereditary diseases

7. Epigenetics analysis in molecular genetics
8. Gene therapy vector development protocols
9. Bioinformatics tools for gene sequence analysis
10. Genetic mutation analysis and gene sequencing protocols

**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 Molecular Genetics Summer Internship Fees](#)

Application Process and Other info