

## Gene Fusion Summer Internships

Join Gene Fusion summer internships to explore the mechanisms of gene fusion events, their role in cancer and genetic diseases, and their applications in biotechnology and molecular medicine for therapeutic development.

### Focussed Areas under Gene Fusion Summer Internship

1. Mechanisms of gene fusion events
2. Gene fusions in cancer and oncogene activation
3. Gene fusion detection and characterization techniques
4. Applications of gene fusions in molecular diagnostics
5. Gene fusion events in hereditary genetic disorders
6. CRISPR-Cas for correcting gene fusions
7. Gene fusion biomarkers for cancer detection
8. Molecular mechanisms underlying gene fusions
9. Functional analysis of fusion proteins in diseases
10. Gene fusions in hematologic malignancies
11. Gene fusion-based therapeutic targets
12. Next-generation sequencing for gene fusion detection
13. Gene fusions and chromosomal rearrangements
14. Gene fusion events in personalized medicine
15. Gene fusion research in developmental biology
16. Fusion protein-targeted drug development
17. Applications of gene fusion in immunotherapy
18. Gene fusion identification in viral infections
19. Gene fusion detection using bioinformatics tools
20. Gene fusion studies in synthetic biology and bioengineering

### Protocols Covered across various focussed areas under Gene Fusion Summer Internship

1. Next-generation sequencing for gene fusion detection
2. CRISPR-Cas systems for gene fusion correction
3. Functional analysis of fusion proteins
4. Bioinformatics workflows for gene fusion identification
5. Gene fusion characterization in cancer research
6. Fusion protein drug development assays
7. Chromosomal rearrangement analysis protocols

8. Molecular diagnostics for gene fusion detection
9. Gene fusion biomarkers in personalized medicine
10. Gene fusion detection using fluorescent in situ hybridization (FISH)

**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 Gene Fusion Summer Internship Fees](#)

Application Process and Other info