

## Next-Generation Sequencing (NGS) Winter Internships

Participate in NGS winter internships to explore cold-stress effects on sequencing data, focusing on cold-environment genomics, transcriptomics, and epigenomics using NGS technologies, and cold-adapted species studies through high-throughput sequencing.

### Focussed Areas under Ngs Winter Internship

1. Cold-stress genomics and transcriptomics using NGS
2. NGS for studying cold-adapted species
3. Cold-induced epigenetic changes detected by NGS
4. NGS applications in cold-environment microbial genomics
5. Cold-stress data analysis and bioinformatics for NGS
6. NGS in identifying cold-tolerant genetic variants
7. Cold-environment virology and pathogen sequencing using NGS
8. NGS in cold-stress gene expression profiling
9. Cold-stress studies in agriculture using NGS
10. High-throughput sequencing for cold-adapted plant genomics
11. NGS in cold-environment biodiversity research
12. Metagenomics and eDNA analysis in cold-stressed environments
13. NGS technologies for studying cold-induced mutations
14. Next-generation sequencing in cold-environment proteogenomics
15. Cold-stress applications of single-cell sequencing
16. NGS in forensic science in cold environments
17. Cold-environment CRISPR genome editing integrated with NGS
18. NGS in rare and hereditary disease research under cold stress
19. NGS in cold-environment evolutionary biology and phylogenetics
20. NGS in environmental DNA (eDNA) studies for cold habitats

### Protocols Covered across various focussed areas under Ngs Winter Internship

1. Cold-environment DNA and RNA extraction for NGS
2. Cold-stress library preparation for whole genome sequencing
3. Cold-stress NGS data analysis workflows
4. Single-cell sequencing protocols for cold-adapted species
5. Cold-stress RNA-Seq and transcriptome analysis protocols
6. Metagenomics sample preparation under cold conditions for NGS
7. Cold-stress NGS library preparation for methylation analysis

8. Variant calling and mutation detection under cold conditions
9. Cold-environment plant genomics sequencing workflows
10. NGS workflows for gene expression profiling in cold habitats

**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 Ngs Winter Internship Fees](#)

Application Process and Other info