

Bioinformatics Data Analysis

Courses Series



Comprehensive Hands On Training in Bioinformatics

*A practical approach to understanding biological data through
Computational and statistical analysis.*

About Us

SciFixia is a Pune-based learning hub offering **practical, industry-oriented training in Life Sciences and Information Technology**. We focus on **hands-on, on-job learning** using real data, real tools, and real-world problem solving.

Our certified programs help learners build strong **technical skills, analytical thinking, and industry readiness** through interactive and application-driven training.

At **SciFixia**, we are committed to making quality education accessible and preparing future-ready professionals for today's evolving industries.

Duration - Online (5 days) Timing - Evening

Why Choose SciFixia?

-  **Real-time industry training**
-  **Hands-on with real datasets**
-  **Genomics & computational biology focus**
-  **Online expert-led sessions**
-  **Certification with job-ready skills**

Course Details

RNA-Seq Data Analysis (5 Days)

- Learn complete RNA-Seq data analysis workflow from raw data to results.
- Perform quality control, alignment, and differential expression analysis using industry tools.
- Conduct functional analysis and data visualization using R.

Module	Tools
Module 1 — Linux Basics and Advances	Bash, grep, awk, nano, conda, shell scripting
Module 2 — Data Retrieval and QC	SRA Toolkit, FastQC, MultiQC, Fatsp
Module 3 — Alignment and Quantification	STAR, featureCounts
Module 4 — Differential Expression Analysis	R programming and DESeq2
Module 5 — Functional Analysis and Visualization	ggplot2, GSEA, Cytoscape, R

Outcomes of this Course

- Practical skills in complete RNA-Seq data analysis workflow.
- Hands-on experience with R, DESeq2, and bioinformatics tools.
- Certificate with real-time project-based learning experience