

# FROM READS TO VARIANTS A HANDS-ON TRAINING ON WHOLE GENOME SEQUENCING DATA ANALYSIS

Online

## About the Training

- ✓ This hands-on training program provides a comprehensive approach to Whole Genome Sequencing (WGS) data analysis, covering the complete pipeline from raw sequencing reads to variant identification and functional interpretation.
- ✓ Participants will learn essential bioinformatics techniques, including quality control, read alignment, variant calling (SNVs, Indels, SVs, and CNVs), and annotation using industry-standard tools.

## Key Topics Covered

- ✓ Linux basics & NGS file formats (FASTQ, BAM, VCF)
- ✓ Quality control, preprocessing, and alignment (FastQC, BWA, Bowtie2)
- ✓ Variant calling for SNVs, Indels, Structural Variants (SVs), and CNVs (GATK, FreeBayes, Manta, CNVkit)
- ✓ Functional annotation & interpretation (VEP, ANNOVAR)



## Duration & Timing



- Date: 14 - 25 Jul. 2026 (2 Weeks)
- 7.15 PM - 8:15 PM (IST)
- Monday to Friday
- Registration Closes: 13 Jul. 2026

## Who Should Attend?

YOUR PARAGRAPH TEXT



Ideal for students, researchers, and professionals in bioinformatics, genomics, and computational biology.

## Eligibility



Students pursuing B.Sc., B.Tech., M.Sc., M.Tech., PhD in life sciences/computer science as well as Teaching and Industry Professionals.

## Benefits



- Certificates
- Access to Live Sessions
- Recordings
- Workshop Materials
- Online Technical Support Post Workshop

## More details



Visit: [www.cbirt.net/training](http://www.cbirt.net/training)

## Course Instructors



Dr. Shikha Mittal,  
Bioinformatics Trainer, CBIRT  
Dr. Tamanna Anwar, Training Organizer & CoFounder, CBIRT

Training Package

WGS + GWAS Data Analysis  
1 Month Internship  
14 Jul. to 10 Aug. 2026  
Registration Closes: 13 Jul. 2026



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## Training Registration

To register for the workshop, please submit the registration form along with your payment details. We accept multiple payment methods to ensure a convenient and secure registration process.

WGS Data Analysis  
Registration



## Registration Process



**STUDENTS**

UPTO MASTERS PH.D  
INR-2250 INR-2500



**POSTDOC/RESEARCH SCHOLARS**

INR-2750



**STAFF/FACULTY**

INR-3000



**INDUSTRY PROFESSIONALS**

INR-3500



**INTERNATIONAL PARTICIPANTS**

(Including all Living, Working, or Studying Abroad at the time of the Workshop).

**STUDENTS**

UPTO MASTERS PH.D  
USD 40 USD 45

**POSTDOC/  
RESEARCH SCHOLARS**

USD 50

**STAFF/FACULTY**

USD 60

**INDUSTRY**

**PROFESSIONALS**

USD 65

**Training  
Package**

WGS Data Analysis + GWAS Data Analysis (1 Month)	NATIONAL	Masters Students INR-3500	Ph.D INR-4000	Postdoc/Research Scholars INR-4500	STAFF/Faculty INR-5000	Industry Professionals INR-6000
	INTERNATIONAL	Masters Students USD 70	Ph.D USD 80	Postdoc/Research Scholars USD 90	STAFF/Faculty USD 100	Industry Professionals USD 110

