



Hands-on Training TOOLS AND TECHNIQUES IN BIOINFORMATICS FOR BEGINNERS

Transform Theory into Practice with Hands-on Experience

2 Weeks | 31 Jul. to 13 Aug. 2025

Registration Closes: 30 July 2025

5:45 – 6:45 PM (IST) | Monday to Friday

Bioinformatics is transforming the landscape of biological research. Join this training program to gain hands-on experience with bioinformatics's essential tools and techniques. This training program is designed for anyone seeking to dive into the world of bioinformatics and will cover fundamental concepts, data analysis methods, and practical applications, providing you with the skills needed to explore and analyze biological data effectively.

REGISTRATION PROCESS

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

To get the application form and fee details and for any other queries, write to us at info@cbirt.net or call us at +91 6398142849.

MORE DETAILS



Visit: www.cbirt.net/training

***Limited seats are available, and registrations are on a first-come, first-served basis. Please register promptly to secure your spot.**

***The course is specially designed for those interested in intensive online training in bioinformatics tools and techniques.**

TOPICS

- Introduction to Bioinformatics
- Application of bioinformatics
- Fundamental Components of Bioinformatics
- Essential tools and software widely used in Bioinformatics
- Phylogenetic Analysis
- Structural Biology
- Introduction to NGS techniques
- Introduction to AI/ML

PROGRAM BENEFITS

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

TRAINING MODE

Online

COURSE INSTRUCTORS

- Dr. Tamanna Anwar, CoFounder, CBIRT
- Dr. Nadia, Trainer & Course Co-Cordinator, CBIRT





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WORKSHOP 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.

REGISTER NOW

Registration Form Link:
<https://forms.gle/S2g57ZFujBhijw7T9>
or Scan the QR Code



REGISTRATION PROCESS



STUDENTS (UPTO PHD LEVEL)

INR-2000



POSTDOC/RESEARCH SCHOLARS

INR-2500



STAFF/FACULTY

INR-2750



INDUSTRY PROFESSIONALS

INR-3000



INTERNATIONAL PARTICIPANTS

**STUDENTS
(UPTO PHD LEVEL)**

USD 35

**POSTDOC/
RESEARCH SCHOLARS**

USD 40

STAFF/FACULTY

USD 45

**INDUSTRY
PROFESSIONALS**

USD 50

PAYMENT METHODS

SCAN QR CODE



centreofbioinformaticsresearch@cnrb

UPI ID



PAYPAL ID



[PayPal.Me/cbirt1](https://www.paypal.me/cbirt1)

ONLINE TRANSFER

Account No. - 120023770387
Bank Name - CANARA BANK
IFSC Code - CNRB0002336
Branch Code - 002336
Branch - Kelangar, Aligarh

Payable to: Centre of Bioinformatics
Research and Technology

For Queries/More Details Contact: info@cbirt.net

Contact Us



+91 6398142849



www.cbirt.net



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Training Schedule

Jul.31, 2025	Introduction to Bioinformatics: <i>Overview of Bioinformatics and its role in pure and applied sciences</i> <i>Applications of Bioinformatics in fields like genomics, proteomics, and drug discovery</i> <i>Introduction to various Bioinformatics tools and software commonly used</i> <i>Career opportunities in Bioinformatics</i>
Aug.01, 2025	Tools and Software: <i>NCBI (National Center for Biotechnology Information): Accessing and utilizing biological databases such as PubMed, GenBank, etc.</i>
Aug.04, 2025	Tools and Software: <i>DDBJ (DNA Data Bank of Japan): A comprehensive database of DNA sequences.</i> <i>EMBL (European Molecular Biology Laboratory)</i>
Aug.05, 2025	<i>GENBANK: Exploring the sequence database and its resources.</i> <i>UniProt (Universal Protein Resource): Database of protein sequences and functional information.</i>
Aug.06, 2025	Protein Databases: <i>SwissProt: Manually curated protein sequence database.</i> <i>PDB (Protein Data Bank): Exploring 3D structural data of proteins and nucleic acids.</i> Gene Prediction Method: <i>GENSCAN: Software used for predicting genes in genomic sequences.</i>
Aug.07, 2025	<i>MSA (Multiple Sequence Alignment): Introduction and tools like Clustal Omega.</i> <i>Phylogenetic Analysis using MEGA: Constructing and interpreting phylogenetic trees.</i>
Aug.08, 2025	Sequence Alignment Tool: <i>BLAST (Basic Local Alignment Search Tool): Introduction to different types of BLAST (nucleotide, protein, etc.) and their applications.</i>
Aug.11, 2025	Structural Biology: <i>Structure Visualization Tools: Tools like PyMOL or Chimera for visualizing protein structures.</i> <i>Secondary and Tertiary Structure Prediction: Using tools such as PSIPRED and I-TASSER for protein structure prediction.</i>
Aug.12, 2025	Protein Domains and Databases: <i>Protein Domains: Introduction to the concept of domains in proteins.</i> <i>Protein Domain Databases: Exploring databases like Pfam, SMART, CATH, and PROSITE.</i> <i>Tools for Domain Prediction and Analysis: Tools like HMMER and InterPro for domain search and annotation.</i>
Aug.13, 2025	<i>Introduction to NGS and its tools and techniques.</i> Introduction to Artificial Intelligence: <i>Machine Learning</i> <i>Data Science</i>

