

Join Summer Internship Program

Learn **Computer Aided Drug Designing** from home with our **Online courses**

About Program

Biomics Techno Solutions, one of the fastest-growing bioinformatics research and training organizations in northern India — proudly presents its NEP 2020-compliant CADD Internship. Rooted in the mission of Skill India, this program is designed to equip biological science students with cutting-edge computational drug design skills. Participants will learn to harness industry-standard bioinformatics tools to solve complex biological problems virtually and support wet lab research with accurate *in-silico* predictions — building the skilled manpower needed to lead the next generation of pharmaceutical research.

Program Highlights

NEP 2020 Compliant

Strictly aligned to NEP-2020; credits transferable as part of your degree curriculum.

120 Hours of Training

Intensive online/offline sessions combining theory, demos, and hands-on practicals.

Internship Certificate

Certificate of completion issued by Biomics Techno Solutions, recognised in academia and industry.

Expert Mentorship

Guided by experienced researchers with expertise in bioinformatics and computational biology.

Project-Based Learning

Work on real-world CADD mini-projects; eligible to upgrade to 2-month project or 4-month dissertation.

Publication Assistance

Dissertation and research-level trainees receive guidance on scientific writing and publication.

WHAT YOU WILL LEARN

MODULE 1 | Ligand-Based Drug Design

- Pharmacophore modelling
- Similarity searching & virtual screening
- Shape-based drug design strategies

MODULE 2 | QSAR Modelling

- 2D & 3D QSAR model development
- Molecular descriptor calculation
- Statistical validation & interpretation

MODULE 3 | Structure-Based Drug Design

- Target protein retrieval from PDB
- Active site identification & analysis
- De novo drug design approaches

MODULE 4 | Molecular Docking

- Protein-ligand docking (AutoDock / Vina)
- Binding affinity scoring & analysis
- ADMET profiling & drug-likeness prediction

PRACTICAL SESSIONS

- 📄 **Software Tools:** Bioinformatics Tools
- 📁 **Database Navigation:** Data retrieval & preparation
- 🔍 **Molecular Visualization:** 3D rendering of protein-ligand complexes; binding pocket exploration
- 🔑 **ADMET & Drug-likeness:** Lipinski's Rule of Five and ADMET compliance screening
- 📁 **Case Study Project:** End-to-end CADD workflow on a real therapeutic target of current relevance
- 📝 **Report Writing:** Interpreting *in-silico* results and preparing a professional internship report

Course Details

Batch starts	Fee	Course Duration	Seats	Registration fee	Last date of registration	Timing
27/07/26	₹ 2500	120 hrs	20	₹ 200	26/07/26	2:00 PM-8:00PM

★ Special discount available for meritorious and needy candidates. ★ Programs can be tailor-made as per candidate requirements. ★ **Flat 20% Discount for Early Birds (Till 20/07/26)**

WHO CAN APPLY

B.Pharm | M.Pharm | B.Sc / M.Sc (Life Sciences, Biotechnology, Biochemistry, Chemistry) | Ph.D Scholars

★ Scan QR Code to Register ★

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