Biomics Techno Solutions

(UDYAM-HR-16-0026997)

An **MSME** Registered Company

Upgrading Human Intelligence For Biological Excellence

... Since 2017 ...

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
20/06/26	₹ 1500	120 hrs	20	₹ 200	19/06/26	2:00 PM-8:00PM

★ *Special discount available for meritorious and needy candidates.* ★ *Programs can be tailor-made as per candidate requirements.*

WHO CAN APPLY

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

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Design the Drugs of Tomorrow — Today.