

INTRODUCTION TO STRUCTURAL BIOLOGY

Explore Molecules. Design Medicines. Impact Lives.

ONLINE SUMMER PROGRAM

AUGUST 06-07, 2025

Curious about how the shape of a molecule can determine health or disease? Join us to explore Structural Biology, Cheminformatics, and Computer-Aided Drug Design (CADD) through an exciting blend of theory and real-world tools!

What You'll Learn ?

Basics of Structural Biology | Computer-Aided Drug Discovery (CADD)

- Molecular docking, virtual screening, ligand design
- Tools like AutoDock, PyMOL, SwissADME, and more

Cheminformatics

- Use molecular descriptors, fingerprints, QSAR, and public databases

Based on the NIGMS-Funded Curriculum

- We integrate content from the NIH-supported open-access coursework on Structural Biology and Drug Discovery

Who Can Join?

- Under-graduate and Graduate Students
- Anyone interested in modern drug discovery, protein modeling, or structure-based design

What You'll Gain ?

- Conceptual clarity + hands-on insights
- Exposure to real-world drug discovery pipelines
- Access to curated, open-source learning materials
- Certificate of Participation

For IDeA INBRE Undergraduate/Graduate Students



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