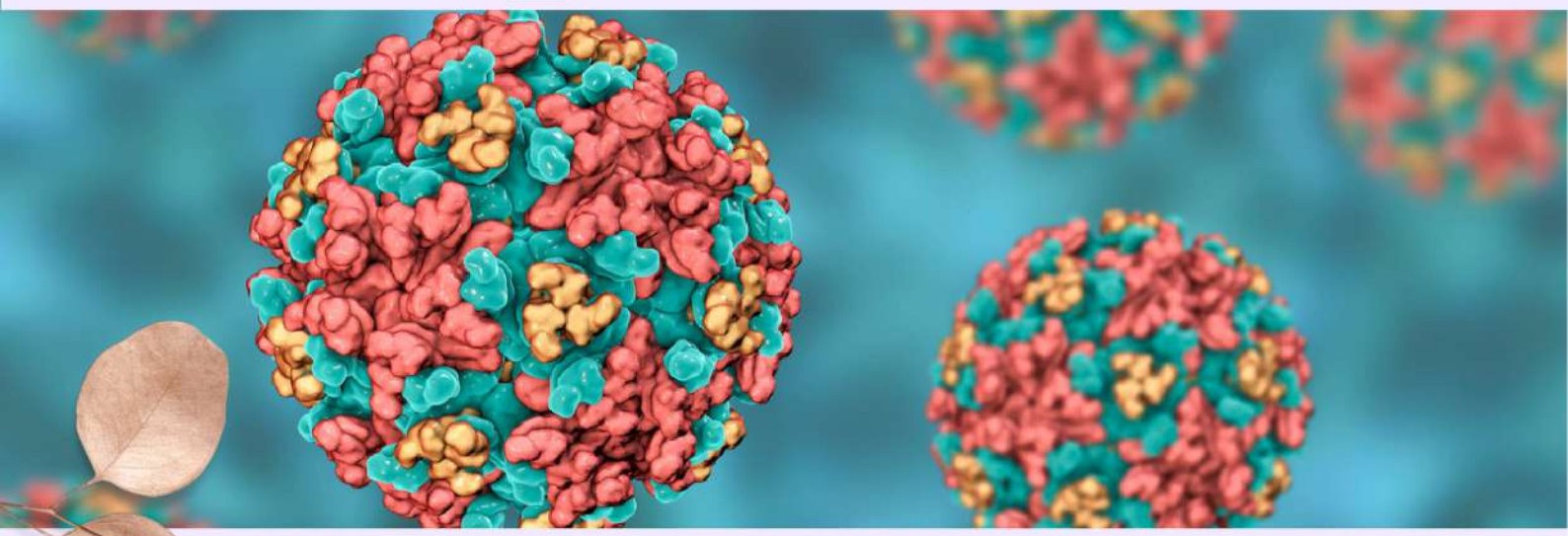
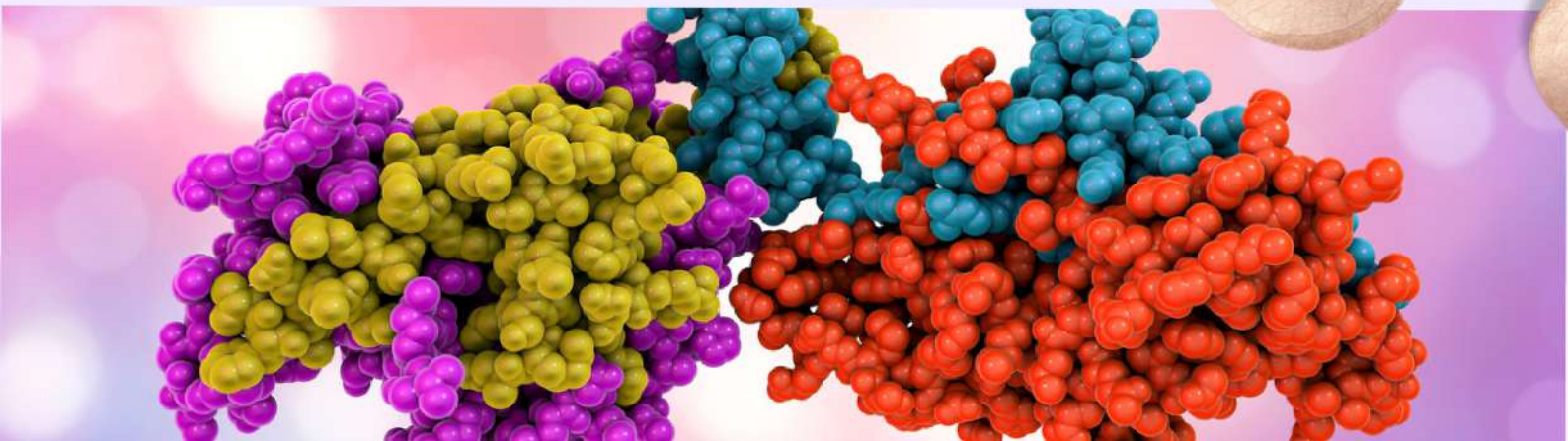
Dr.Omics Labs
The Doctor of your DNA



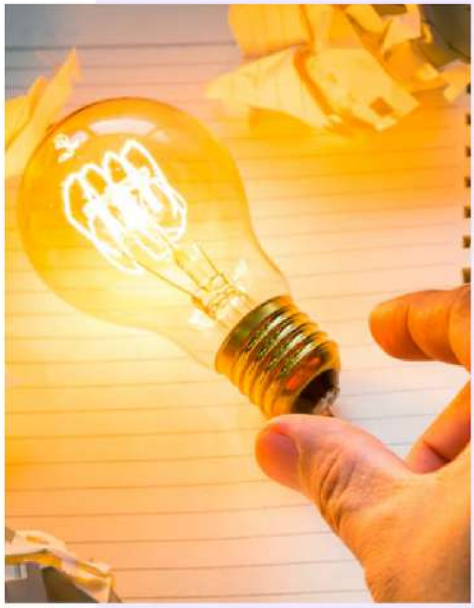
BIOINFORMATICS MEETS DRUG DESIGN

6 WEEKS OF CUTTING-EDGE CADD INTERNSHIP



Welcome to Our Program

At Dr.Omics Labs, we're delighted to offer you an extraordinary journey into the world of Industrial Bioinformatics and Computer-Aided Drug Designing. Join us and make a significant impact on the future of drug discovery and bioinformatics research.



About us

Dr.Omics Labs is a leading institution dedicated to advancing bioinformatics, genomics, and proteomics research. Their Industrial Bioinformatics Long-term Internship program provides a combination of coursework and hands-on project experience to equip individuals with the necessary skills and knowledge to excel in the field.

Key Program Features

- Comprehensive coursework in CADD techniques.
- Hands-on experience with cutting-edge software and tools.
- HR sessions to get you ready for interviews.

Coursework Overview

1. Machine Learning in Drug Designing

2. HR Session (5 Days)

MACHINE LEARNING IN DRUG DESIGN

- **Introduction to Machine Learning**
  - Basics of machine learning
  - Supervised, unsupervised, and reinforcement learning
  - Hands-on: Learn the basics with the scikit-learn library in Python.
- **Data Preprocessing for Drug Design**
  - Data cleaning and feature selection
  - Handling molecular data
  - Hands-on: Use Pandas and NumPy for data preprocessing.
- **Machine Learning Models for Drug Design**
  - Regression and classification algorithms
  - Deep learning in drug discovery
  - Hands-on: Implement machine learning models using scikit-learn and TensorFlow/Keras.
- **Applications of Machine Learning in Drug Design**
  - Predicting drug-target interactions
  - QSAR modeling
  - Hands-on: Apply machine learning to real datasets with RDKit and Cheminformatics.
- **Drug Optimization and Lead Identification**
  - Structure-activity relationship (SAR) analysis
  - De novo drug design using ML
  - Hands-on: Use RDKit for SAR analysis and explore de novo design tools

Program Structure

- **Duration: 6 Weeks**

Gain expertise in CADD techniques

- **6 Weeks of In-Depth Learning**
  - **Data Mining and Analysis:** Extract valuable insights from biological datasets.
  - **Molecular Modeling:** Utilize advanced techniques in computational drug design.
  - **Collaboration:** Work in multidisciplinary teams, fostering effective communication skills.
- **HR Session:** To assess your communication skills, teamwork, and fit with the company culture.

FREQUENTLY ASKED QUESTIONS

Q: Are these courses suitable for those new to the field without prior experience?

A: Yes, our courses are designed to cater to beginners with no prior experience in the field. We provide foundational content suitable for all skill levels.

Q: Will I receive a certification upon completing the course?

A: Absolutely, a digital certificate will be awarded upon course completion. You'll receive this certificate via email.

Q: Do the courses include practical projects and research opportunities?

A: Certainly, our courses incorporate practical projects and research opportunities to ensure hands-on learning and the practical application of acquired knowledge.

Q: Can I access class recordings if I miss a class?

A: Yes, class recordings are available. We'll send you the recording link via email if you miss a class, typically on the day following the live session.

Q: Can I continue to access course materials and resources after finishing the course?

A: Absolutely, you'll retain access to course materials and resources even after completing the course. These materials will be shared with you via email or WhatsApp.

TERMS AND CONDITIONS

- Maintaining Discipline during the Tenure.
- It is mandatory to maintain 85% attendance for all students.
- Students must maintain an average ‘A2’ grade throughout their training period.

Need more insight & support?

CONTACT US!

602/e, W No 3, G/f, L/side, Seqno-m, H 3/727 Gadaipur New Delhi, South-West Delhi-110030.

+91 7289003396

www.dromicsedu.com

Thank you!

Dr.Omics Labs
The Doctor of your DNA

OUR CERTIFICATIONS & GRANTS

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