

IIITDM Kancheepuram

Inviting Applications for Internships under AV VRITIKA Scheme- 2023

Trust areas: Bioinformatics, Drug discovery, Molecular modelling and Simulation

ABOUT IIITDM KANCHEEPURAM



IIITDM Kancheepuram is an Institute of National Importance established by the Ministry of Education, Government of India to pursue design and manufacturing-oriented higher education and research. The Institute offers B Tech, M Tech, M Des programmes, and PhD programmes in Computer Science and Engineering, Electronics and Communication Engineering, Mechanical Engineering, Interdisciplinary Product Design, Science and Humanities. For more details, visit the following link: <http://iiitdm.ac.in/>

ABOUT VRITIKA RESEARCH INTERNSHIP SCHEME

VRITIKA' is the call for initiation and practice in science through Training and Skill Internship. This program aims to provide opportunities to promising PG students from universities and colleges to get exposure and hands-on research skill development experience. These internships will primarily be facilitated by organizations / institutions / laboratories of national importance.

For further details visit the following links:
<https://acceleratevigyan.gov.in/programs/abhyas/vritika>
<http://serb.gov.in/abhyaas.php>

INTERNSHIP DETAILS

Duration: 17th May 2023 to 16th July, 2023 (Tentative)

Place of Internship: IIITDM Kancheepuram

Required number of interns: 2

- No Stipend will be provided for the Internship. Boarding and Lodging Expenditures, and other expenditures incurred as part of internship for consumables, travel, etc. shall be supported as per the Scheme Approval of SERB AV VRITIKA.
- Certificate will be provided to the interns after the successful completion of the internship tenure.

ABOUT THE INTERNSHIP

Project Title: Identification of novel peptides to inhibit cell cycle-associated proteins for the targeted therapy of Ovarian Cancer

Cancer-targeting peptides are emerging next-generation therapeutics due to better bioavailability, increased tumor penetration, high target specificity, and low toxicity. This project aims to identify a novel plant derived anticancer peptide for the therapy of ovarian cancer. Using Quantitative Structure-Activity Relationship (QSAR) approach a novel peptide will be engineered that specifically inhibits the cell cycle regulatory proteins. The stability of peptide-protein complexes will be evaluated by Molecular dynamics simulation (GROMACS).

APPLICATION DETAILS

Who can Apply? PG level (M.Tech./M.E./M.Sc.) students (DD also), Ph.D scholar pursuing their degree from University / institution within India.

How to Apply? Please fill this [Google Form](https://forms.gle/57NSwTRzTTMRsm2FA) (<https://forms.gle/57NSwTRzTTMRsm2FA>)

Deadline for Application: 8th May, 2023 (Shortlisted candidates shall be intimated on or before 10th May, 2023)

Selection procedure: Interviews will be conducted. Candidates having prior experience with Bioinformatics, drug designing and programming skills will be preferred.

ADDRESS FOR CORRESPONDENCE

Principal Investigator: Dr. M.Monisha

Assistant Professor, BioEngineering Lab (BEL)

Department of Sciences and Humanities

Indian Institute of Information Technology Design

and Manufacturing (IIITDM) Kancheepuram,

Vandalur-Kelambakkam Road, Chennai- 600127

Email: monisha@iiitdm.ac.in