



IIITDM Kancheepuram

Inviting Applications for Internships under AV VRITIKA Scheme- 2023

Thrust areas: Optics, Instrumentation, Spectroscopy, Product Design, Biomedical Engineering

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 engineering education and research and to promote the competitive advantage of Indian products in global markets. 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, Mathematics, Physics and English. Recently the Institute is offering PhD in Biomedical Engineering.

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: 15th May 2023 to 13th July, 2023 (Tentative)

Place of Internship: IIITDM Kancheepuram

Required number of interns: 5

- 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: Development of Ring-Collection based Spatially Offset Raman Spectroscopy for Breast Cancer Diagnosis

Abstract: The project's primary objective is to design and develop a ring collection-based Spatially Offset Raman Spectroscopy (SORSDx) tool that can quantify the bulk and sub-surface characteristics of the ex-vivo breast biopsy tissue.

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://bit.ly/43s5zMN) (bit.ly/43s5zMN)

Deadline for Application: 30th April, 2023 (Shortlisted candidates shall be intimated on or before 10th May, 2023)

Selection procedure: Interviews will be conducted. Candidates having prior experience with optics, instrumentation, electronics will be preferred.

ABOUT LEAP LAB @ IIITDM KANCHEEPURAM

The research focus of LEAP Lab (Light Engineering and Applied Photonics) is interdisciplinary in nature. It addresses the challenges in developing clinical diagnostic devices, including microscopic and macroscopic investigations of cells and tissues. It is a convergence of advancements in the field of optical, thermal, and acoustic modalities with clinical diagnosis.

ADDRESS FOR CORRESPONDENCE

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