



IIITDM Kancheepuram

Call for Summer Research Internship Under Accelerate Vigyan - Vritika

AI and Analytics in Distributed Fiber Optic Sensing



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. The Institute offers B.Tech, M.Tech, M.Des. and PhD programmes in core and applied areas of Engineering, Interdisciplinary Product Design, Sciences 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:

- <http://serb.gov.in/abhyas.php>
- <https://acceleratevigyan.gov.in/programs/abhyas/vritika>

About the Internship Programme

Distributed fiber optic sensing is a new paradigm in the area of optical sensing, particularly for long range sensing applications like perimeter monitoring, oil and pipeline leak monitoring, earthquake detection etc. These sensors generate enormous volume of data and it becomes imperative to use AI-based data analysis for real-time applications. During this internship, participants will be exposed to the fundamental principles of various distributed fiber optic sensor configurations. This internship is intended to train the participants in using appropriate machine learning or deep learning techniques on real-time datasets for event detection and classification. The internship is interdisciplinary in nature, dealing with optics and photonics, and AI-based techniques including machine learning and deep learning.

Internship Details

- Duration: May 22, 2023 to July 20, 2023
- Place of Internship: Fiber Optic Sensing Laboratory, IIITDM Kancheepuram
- Number of Internships: 05
- Reporting Date for Selected Candidates: May 22, 2023
- The support amount of Rs. 30000 per intern for the whole internship period shall be given for meeting daily necessary expenses such as stationery, consumables, accommodation, food etc, and will not contain any stipend.
- The interns will be eligible for TA reimbursement for their journey to the host institute from their hometown/home institute, both ways, as per GOI norms.
- Certificate will be provided to the interns after the successful completion of the internship tenure.

Who can Apply?

- Regular PG level (M.Tech/MS/M.E/M.Sc.) students, Ph.D. scholars pursuing their degrees from Universities / Institutions within India.
- Students interested to pursue research in the field of Optics & Photonics
- Motivated students with a willingness to explore new concepts

How to Apply?

- Interested candidates may apply by filling out the Google form <https://forms.gle/ehq6HvsgLB8TAYwf9>
- Deadline for application submission: May 15, 2023
- Shortlisted candidates shall be intimated via email on or before May 17, 2023 .

Event Organizer

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