

IIITDM Kancheepuram

Inviting applications for

Emerging AIoT Based Medical Imaging Device Development: From Understanding to Implementation

Internship under AV VRITIKA Scheme - 2023

About IIITDM Kancheepuram

IIITDM Kancheepuram is a Centre of Excellence for technical education and research established in 2007 by the Ministry of Human Resource Development, Government of India. To pursue design and manufacturing-oriented engineering education and research and for promoting the competitive advantage of Indian products in global markets. The Institute is presently offering UG, PG, and Ph.D. programs in Computer Engineering, Electronics and Communication Engineering, and Mechanical Engineering. More details at www.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. More details can be found at <https://acceleratevigyan.gov.in/programs/abhyas/vritika>

About the Internship

Emerging AIoT Based Medical Imaging Device Development: From Understanding to Implementation (EMD2023)

A suitable platform for the development of AIoT-based medical imaging devices is offered by the internship programme. Candidates will be introduced to the fundamentals and more advanced topics of machine learning and deep learning throughout the programme, with a focus on device development for issues like cholesterol level detection, computer-aided detection and diagnosis for anaemia, deep learning in medical image analysis for liver abnormalities, EEG signal analysis, etc. Participants will learn the fundamental concepts behind a variety of biological image processing subjects throughout this internship. The internship focuses on interdisciplinary topics such as biological image processing and AI-based techniques such as deep learning and machine learning.

Internship Details

- Duration: May 22, 2023 to July 20, 2023
- Place of Internship: IIITDM Kancheepuram
- Required Number of Interns: 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./ M.S./ M..E./ M.Sc.) students, Ph.D. scholars pursuing their degrees from Universities /Institutions within India.
- The Intern should be interested/ knowledgeable in image processing.

How to Apply

- The candidate shall apply by filling out the given google form
- <https://forms.gle/5eLH3pTFi7kmz2nY8>
- **Deadline for Application: 15th May 2023**
- Shortlisted candidates shall be intimated via email on or before May 17, 2023 .

Selection Process

- Based on applicant profile merit and interview.
- Candidates with prior research exposure, area match and performance in national level exams will be prioritized.
- Consistent Good Academic Record.

Contact Details:

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