

IITDM Kancheepuram

Call for Research Internship Under Accelerate Vigyan - Vritika

Internship on Self-Powered Wearable Technology

About IITDM Kancheepuram

IITDM Kancheepuram, a centrally funded institute offers UG and PG programs in computer, electronics and mechanical engineering with the mandate of excelling in IT and IT enabled Design & Manufacturing pedagogy and research. B.Tech, M.Tech, Dual Degree courses specializing in VLSI, Systems Design, etc. and Ph.D programmes in core areas of engineering are offered by us. Curricula for these programmes augment engineering domain with relevant design & manufacturing skills. 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. For further details visit the following links:

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

About the Internship Programme

The Internship will focus on the application of self-powered devices in wearable technology. Increasing development of Internet of Things bring towards designing for wearable power sources. Self-powered devices are most suitable for developing wearable technology because can promotes high reliability, long operating lifetime, no moving parts, no noise, easy maintenance and environmentally friendly. Micro- and nanomaterials play a significant role in the development of wearable devices. Most research in this field relied on exploiting rigid electronics in the semiconductor industry. However, recent focus has shifted to wearable sensing platforms, utilizing materials ranging from fabrics to 3D printed flexible electronics. These advancements hold a promising potential solution to the longstanding tradeoff between performance and fabrication costs for wearable devices. In view of this, an internship program on 'self-powered wearable technology' is expected to benefit the scholars from engineering and science institutions, researchers from research labs, to broaden their knowledge and hands-on-utilization of materials for wearable technology.

Internship Details

- **Duration:** Feb 2023 to Mar 2023
- **Place of Internship:** IITDM Kancheepuram, Chennai-600127
- **Number of Internships offered:** 05
- **Reporting Date for Selected Candidates:** On or before 10 Feb 2023
- No Stipend will be provided for the Internship.
- Boarding, Lodging expenses for the internship period and other contingency expenditures as approved under Vritika scheme will be provided.
- Certificate will be provided to the interns after the successful completion of the internship tenure.

Who can Apply?

- Regular PG-Level (ECE/CSE/IT/BME/MECH/Related Disciplines) Students who are currently pursuing their degree from Institutions within India.
- **Specialization:** The Intern should be knowledgeable in the basics of Machine learning and Deep Learning techniques. Experience in related projects is desirable

How to Apply?

- The candidate shall apply by filling out the given google form. <https://forms.gle/Zd31uvkjMusi2KgN8>
Deadline for Application Submission: 05 Feb 2023
- Shortlisted candidates shall be intimated via email on or before 08th Feb 2023

Address for Correspondence:

Dr. Pandiyarasan Veluswamy and Dr. Rohini. P

IITDM Kancheepuram,

Email: pandiyarasan@iiitdm.ac.in/ rohini@iiitdm.ac.in, Contact: 9841659592/ 8667220364