



(An Institution of National Importance under MHRD, Government of India)

Melakkotaiyur, Off Vandalur-Kelambakkam Road, Chennai-600127

Ph: +91 44 2747 6313 Fax: +91 44 2747 6301 Email: administration@iitdm.ac.in

Advt. No: IITDMK/RA/A1/2018

31<sup>st</sup> December 2018

### **Advertisement for Research Assistant**

Indian Institute of Information Technology Design and Manufacturing (IITDM), Kancheepuram is an Institution of National Importance established in 2007 by the Ministry of Human Resource Development, Government of India and is located at outskirts of Chennai (Off Vandalur-Kelambakkam Road). It is a Centre of Excellence for pursuing Design and Manufacturing Oriented Engineering Education and Research and for promoting competitive advantage of Indian products in global markets.

IITDM Kancheepuram is presently offering undergraduate, postgraduate, dual-degree programmed in the areas of Computer, Electronics, Mechanical Engineering and inter-disciplinary Ph.D.programmers in core and applied areas of basic sciences (Physics and Mathematics) and engineering. It functions with the vision to groom engineers with design and manufacturing skills. The institute gives significant amount of emphasis for practice courses and theory concepts are also explored along with the relevant laboratory course.

IITDM Kancheepuram invites **online application** for the following research project position:

#### **Project Description**

With the growing concerns of energy crisis and environmental protection, the development of wearable power generator devices has taken an accelerated pace. Thermoelectric generators could be used to tap the electrical power from the temperature gradient of waste heat and provide a long-lasting solution to the ever-growing demand for implantable medical devices. This increasing demand for light weight, high flexible, stretchable, and washable presents critical challenges for the progress of wearable thermoelectric power generator. This project will focus on development of thermoelectric materials on fabric for thermoelectric applications. There will be an emphasis on (i) Optimization of electrical doping, and (ii) structural engineering through bottom-up nanostructuring.

<b>Name of the Research Project</b>	Wearable Thermoelectric Power Generator
<b>Duration of the project</b>	Five years
<b>Name of the principal Investigator</b>	Dr. Pandiyarasan Veluswamy, DST INSPIRE Faculty
<b>Funding Agency</b>	Department of Science and Technology (DST)
<b>Name of the Project Position</b>	Research Assistant (1 Position)
<b>Qualification</b>	First class B. Tech in Nanoscience and Nanotechnology/ Electronics/ Metallurgical / Materials Engineering. Essential: <ul style="list-style-type: none"><li>• Demonstrated verbal and written communications skills necessary to work in a multidisciplinary team environment, scientific reports, publications and deliver scientific presentations.</li><li>• Experience in the synthesis of nanomaterials, analyzing and interpreting data obtained</li></ul>
<b>Age</b>	Preferably below 28 Years
<b>Stipend</b>	Rs. 20,000 p.m.

**General Conditions/Instructions for all posts:**

1. Online application only accepted.
2. Indian Nationals need to apply.
3. The candidates are required to work mainly for the success of the project.
4. The position is temporary and renewable each year subject to satisfactory performance, for a maximum of five (05) years or up to duration of the project, whichever is earlier.
5. Candidates should bring self-attested copies of the relevant certificates/testimonials along with the original certificates/documents at the time of interview.
6. No travelling or any other allowances is admissible for attending the interview.
7. The Institute reserves the right not to fill up the position, if it so decides.
8. The Institute reserves the right to terminate the appointment at any time before completion of the period, if it so decides.
9. No interim correspondence will be entertained.
10. Canvassing in any form will lead to disqualification.
11. Shortlisted candidates will be intimated through email
12. Last date for submission of online application is **22.01.2019**

**Place of Interview:**

**Indian Institute of Information Technology Design and Manufacturing, Kancheepuram**  
Melakkottaiyur, Off Vandalur-Kelambakkam Road,  
Chennai-600127  
Contact No: 044-27476313  
Email: administration@iiitdm.ac.in

Dean (SR)  
IIITDM Kancheepuram