



Advertisement for the Post of Research Associate I

Advt. No.:IIITDMK/PR/RAI/A12/2025

Date: 13.05.2025

Applications are invited for the following post. The post is purely on a contractual basis.

Name of Position	Research Associate I
Number of Positions	One
Nature of Work	Research & Trilateral country collaboration
Duration of the Position	The position is temporary for one year, with the possibility of a one-year extension based on a performance review. This project presents an exciting opportunity to collaborate with the University of Malaya, Malaysia, and Universitas Indonesia, Indonesia, in a highly interdisciplinary research environment.
Stipend	Rs. 58,000/- pm + 24% HRA (Fixed) <i>Note: 24% HRA will be paid if no accommodation is provided by the Institute.</i>
Title of the Sponsored Project	Next-Generation Thermoelectric Textiles: Pioneering the future of Wearable Technology
Funding Agency	ANRF AISTDF
P.I / Co-P.I	Dr. Pandiyarasan Veluswamy
Department	Electronics and Communication Engineering
Educational Qualification	<ol style="list-style-type: none">1. Candidate who have submitted their thesis and are awaiting the award of a Ph.D degree may also apply.2. Candidates should provide evidence of having conducted high-quality research during or after their Ph. D. program.3. Proven experience in high-quality wet-lab materials such as intermetallics, spinel, and transition metal oxides.4. Hands-on expertise in transport measurements like Seebeck and Electrical Coefficient, Thermal Conductivity, or Physical Property Measurement System (PPMS).5. Proficiency in analyzing data from X-ray diffraction, Scanning electron microscopy, Transmission electron microscopy with SAED, UV and FTIR Spectroscopy, Hall measurements, and XPS experiments.6. Additional consideration will be given to candidates with experience in simulations as Density Functional Theory (DFT) calculations.7. Should have experience working in a group collaboration.

Additional Qualification (Desirable, if any)	Proven experimental research in thermoelectric and proficiency in analyzing data from XRD, SEM, XPS, TC, TEM-SAED and wet chemical lab experiments.
Age Limit	30 years as on Last date of receiving the application (Age relaxation is applicable as per GoI norms)
Interview Schedule: Date, Time & Venue	Shortlisted candidates shall be informed through email. 06, June 2025, 10 AM. IIITDM Kancheepuram, Chennai, Admin Building
Last Date	03-06-2025

How to Apply and Selection Procedure:

1. Interested candidates are requested to submit their applications in the enclosed prescribed format.
2. Take print of the application form, fill, sign, and scan the application form. Upload the scanned copy in google form link: <https://forms.gle/9okPRbZXoo3Kuj3CA> and submit the hard copy at the time of Interview.
3. Candidates should be present physically at IIITDM Kancheepuram located at Chennai - 600127 for the written test and/or interview on June 6, 2025 at 10am.
4. Candidates should produce all educational and experience certificates at the time of interview for verification.
5. No TA/DA will be paid for attending the interview.
6. The selection process consists of written test followed by Interview. The topic for written test along with syllabus is enclosed.

For any clarification regarding the application process, the candidate may contact the PI. email: pandiyarasan@iiitdm.ac.in

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Topics for Written Test

1. Thermoelectric and Thermomagnetic phenomena
2. Figure of Merit
3. Efficiency of Thermoelectric Power Generators
4. Transport of Heat and Electricity in Solids
5. Band Theory of Solids
6. Influence of carrier concentration on the properties of a Semiconductor
7. Optimization of Electronic Properties and Minimizing Thermal Conductivity
8. Measurement and Characterizations: XRD, SEM, UV, FTIR, XPS, PPM

1. **Name** (in block letters): _____

2. **Date of Birth** (DD/MM/YY): _____

Insert passport
size photograph
(image file)

3. Address for Communication: _____ _____ _____ City: _____ Pin: _____ Phone No.: _____ *Email: _____	Permanent Address: _____ _____ _____ City: _____ Pin: _____ Phone No.: _____
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**Please make sure that the e-mail ID is correct and legible.*

4. Details of University/ Institution Studied (10th onwards, insert cells if necessary):

Degree / Examination Passed	Subjects/Area of specialization	Institution	Year of Passing	Average Marks/CGPA	Class

5. Additional Qualifying Examination(s) Passed (if any):

(a) CSIR/UGC- NET-JRF Registration/Roll No.: _____ Date of exam: _____ Valid till: _____	(b) JEST/GATE Registration/Roll No.: _____ Score (percentile and Rank): _____ Valid till: _____
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6. Experience (Teaching/Research/Industrial etc.) if any (insert cells if necessary):

Name of the Organization	Designation	Period		Nature of Work
		From	To	

7. Research Publications (if any, submitted/accepted/published): Please also write your contribution in the published articles. Kindly attach the list of publications and conferences as separate list in annexure 1.

8. If you have prior experience working in the area of experimental materials and devices for thermoelectric applications, please write about it in about 200 words.

9. References: Please provide us details (Name, Affiliations, email ID, phone number, and relationship with you) of at least two referees who will be able to write a reference letter for you.

10. Personal Information:

a	Nationality	
b	Gender (Male/Female/Other)	
c	Marital status	
d	Mother's/Father's/Spouse's Name	
e	Whether person with disability: Yes/No (if yes, furnish necessary document)	
f	Whether belongs to reserved category: SC/ST/OBC	
g	Whether any of your close relative(s) is / are employed in IIITDM Kancheepuram? If yes, give details:	
h	Are you currently working in Central / State / Semi- Govt / PSU / Autonomous Bodies of the Govt.? (If yes, please submit NOC issued by your present employer)	

(Note: Incomplete applications will not be considered)

DECLARATION

I hereby declare that I have carefully read and understood the instructions given in the Advertisement. All information furnished in this form as well as the attached documents are true and correct to the best of my knowledge and belief. I fully understand that if it is found at a later date that any information given in the application is incorrect / false or if I do not satisfy the eligibility criteria, my candidature / appointment is liable to be canceled / terminated.

Place:

Date:

Signature of the Applicant

(Applicant has to bring all the original certificates at the time of interview for the purpose of verification, along with one set of photocopies)

Annexure 1(Template)

S.No	Title	Authors	Journal name	DOI	Q1/Q2/Q3/Q4*	Year

* Q1/Q2/Q3/Q4 refer to <https://wos-journal.info>