

## JRF in INAE-sponsored Indo-Taiwan joint research project at the Energy Systems Research Lab @ IIT Gandhinagar

At the Energy Systems Research Laboratory at IIT Gandhinagar, we specialize in the design of fuel cell systems, fuel reforming techniques, multi-scale modelling, and simulation. Our group is currently seeking an outstanding candidate to strengthen our research team as Junior Research Fellow in the INAE-sponsored Indo-Taiwan joint research project on Feasibility study of emergency cooling in an air-cooled datacenter using PCM (phase change material) thermal module. The project involves extensive use of CFD tools such as Ansys Fluent.

### Role highlight

Learn advanced technologies and the complete engineering process to convert concepts to products. Ideate, design, build, integrate, test and validate a range of different technologies across mechanical engineering. If the **JRF contributes meaningfully to the project, he/she will be given an opportunity to visit our collaborator in Taiwan for research interactions.**

### Key Responsibilities

- Apply engineering skills such as Computational Fluid Dynamics (CFD) to design and build PCM-based cooling systems, sub-systems, and components.
- Engage with a diverse multidisciplinary and cross-cultural team to achieve project milestones.



## Desired Qualifications

- BTech/ B.E. degree in Mechanical Engineering or Chemical Engineering with a valid GATE/ NET qualification (validity at least until 31/10/2024).
- Candidate with hands-on experience of CFD (thermo-fluid numerical) modelling will be preferred. Fresh graduates with a passion for experimental and computational work may also apply.
- Proficiency in technical drawing, CAD and specification preparation is preferred.
- Strong teamwork and communication skills, willingness to learn and work with one's hands to design and build a complete system from scratch.

## Duration:

The initial appointment will be for one year, which may be extended by up to two more years, based on performance.

## No of positions: 1

**Remuneration: ₹ 37,000.00 per month + 27% HRA<sup>1</sup>**

## Application procedure:

Complete the online application here:

<https://forms.gle/ag6jWHTyeGaFe5jS9>

## Key Dates:

Last Date of Application	17/09/2024
Shortlisted Applicants announcement on website	18/09/2024
Online interviews	19-20/09/2024
On campus interview (if necessary)	23-27/09/2024
Final Announcement	To be intimated to the successful candidate
Joining date	

For further information, kindly write to Prof. Atul Bhargav (atul.bhargav@iitgn.ac.in)

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<sup>1</sup> Generally, campus accommodation will be provided. However, in case it is not provided, then HRA will be applicable as indicated