



INDIAN INSTITUTE OF TECHNOLOGY PATNA
BIHTA PATNA-801106
RESEARCH & DEVELOPMENT UNIT

ADVERTISEMENT NO: R&D/1277/MTA/476**DATED: 22.05.2025**Project No. **MTA-1277**

Applications are invited in the prescribed format only for the following assignment in a purely time bound research project undertaken in this institute.

1. (a) Name of the temporary assignment : **Research Associate**
(b) Number of Post : **01 (one)**
(c) Duration of the Post : **1 year (Further extendable based on performance)**
2. Name of the temporary research project: **Mechanical and Thermal Analysis of Compressor Housed Generator**
3. Name of the sponsoring Agency : **GTRE, DRDO**
4. Consolidated Fellowship/Salary : **Rs 52000 per month + 9 %HRA**
5. Qualifications & Experience : **Ph.D. (Mechanical, Aerospace, Chemical, Electrical, or equivalent) with prior research experience in the broad area of physical sciences as evidenced through quality journal publications, patents, and technology development.**

or

M.Tech. (Mechanical, Aerospace, Thermal, Manufacturing, Mechatronics, Chemical, Electrical or equivalent) with 3 years' experience in an area relevant to the project needs. The candidate should have demonstrated research interest through quality journal publications, patents, and technology development.

The upper age limit for applying for the RA position shall be as per government agency norms. Relaxation in experience and age is permissible only for suitable candidates with higher qualification. Candidates with relevant work and/or prior research experience in the fields of computational thermo-mechanical analysis.

6. Description of the ONLINE MODE of the selection process:**Application procedure:**

1. Candidates interested in this position and satisfying the qualification criteria with experience in the relevant field of research should write an email to the project investigators Dr. Ashwani Assam, Dr Akhilendra Singh, and Dr Atul Thakur, Department of Mechanical Engineering, IIT Patna (Email IDs: **aashwani<at>iitp.ac.in, akhil<at>iitp.ac.in, and athakur<at>gmail.com**).
2. The **subject of the email** should read as "**RA Position MTA-1277**". The last date for receiving this email is **5th June 2025**.
3. The email MUST include the **scanned/pdf copy of duly filled application form** (see attached word document or provided at the following link https://cciiitpatna-my.sharepoint.com/:w:/g/personal/aashwani_iitp_ac_in/EbfehiDPBe1CuFhHOQWx0CIBRsL9oH5DfcUKcG3HrciOmQ?e=xbCVdo) with applicant's signature.



INDIAN INSTITUTE OF TECHNOLOGY PATNA
BIHTA PATNA-801106
RESEARCH & DEVELOPMENT UNIT

4. The email MUST include self-attested scanned **pdf copy of all supporting documents** (degree certificates, mark-sheets, GATE scorecard, SOP, and category certificate, if applicable).
5. Copy of all Scopus indexed **journal papers** should be attached with the email.
6. The application MUST additionally include a **500-word statement of purpose (SOP)** stressing relevant experience in the area of the project. This document should elaborate on your interest in the broad area of this project and any relevant prior experience/skills which would help you in solving the assigned research problem. IIT Patna reserves the right to not shortlist any candidate in case the application email does not contain complete information backed up by supporting documents as listed above.
7. **Two recommendations letters** (one must be from the PhD supervisor for candidates with PhD as the highest degree) should be sent to the above stated email addresses by the application deadline date of **5th June 2025**.
8. The application should also include a brief **Academic CV** not exceeding two pages.

This project is a highly specialized, time bound, and target orientated. The qualification and experience given above in this advertisement are at the minimum requirement level and do not guarantee interview call if other candidates with higher qualification and/or experience desirable and commensurate with project objectives are available. Further, IIT Patna reserves the right to not shortlist any candidate in case the application email does not contain complete information backed up by supporting documents as listed above. All candidates who apply via email by 5th June 2025 (deadline) and are shortlisted will be informed regarding the further details by 8th June 2025. The date of online interview will be announced and informed to the shortlisted candidates in due course of time. The tentative date of online interview will be around 10th June 2025. The exact dates will be communicated to the shortlisted candidates by email.

9. About the Project:

This DRDO-funded project focuses on advanced thermo-mechanical computational analysis of a high-speed magnet alternator, aimed at understanding and optimizing electromechanical and thermal interactions. The work will involve developing and validating high-fidelity models using tools such as ANSYS Fluent or COMSOL. The selected researcher will contribute to simulation-driven insights critical for high-performance electromagnetic systems. Applicants may also contact Dr. Ashwani Assam, Dr Akhilendra Singh and Dr Atul Thakur and visit <https://www.iitp.ac.in/~aashwani/>, <https://www.iitp.ac.in/~athakur/>, <https://www.iitp.ac.in/people-6/faculty/221:view-profile-31> for further details on the research at IITP.

Assistant Registrar

Copy to:

1. Associate Dean, R&D, IIT Patna
2. Advertisement file
3. Project file

INDIAN INSTITUTE OF TECHNOLOGY PATNA
BIHTA PATNA-801106
RESEARCH & DEVELOPMENT UNIT

PROJECT CODE: MTA-1277

ADVERTISEMENT NO: R&D/1277/MTA/476

DATED: 22.05.2025

FORMAT OF APPLICATION FOR RA

Name & Address Including email id and Phone no. (for Correspondence)		Category (GEN/OBC/SC/ST/PD)	DOB dd/ mm/yy	Professional Exam. (GATE/CSIR-NET, etc) & Validity
NAME IN CAPITAL Address: Phone: Email:				
Educational Qualification				
Institute/ Board	Exam Passed	Year of Passing	% of Marks/CPI	
	10 th Class			
	12 th Class			
	Bachelors (B.Tech/B.E.) or equivalent			
	Masters (M.Tech/M.E) or equivalent			
	Ph.D.			
Qualifying degree	Degree/ major/Specialization			
(B.Tech/B.E.)				
(M.Tech/M.E)				
Ph.D.				
Others				



INDIAN INSTITUTE OF TECHNOLOGY PATNA
BIHTA PATNA-801106
RESEARCH & DEVELOPMENT UNIT

Include the list of attachments (as per advertisement) submitted along with this form below:

- 1.
- 2.
- 3.
- 4.
- 5.

Declaration: I hereby certify that all information provided herein is accurate and supported by original documents. I acknowledge that I have uploaded all required documents including the SOP as specified in the advertisement form. In the event of any missing or incorrect information, I acknowledge that IIT Patna reserves the right to exclude my application from further consideration without any notification. It is my responsibility to ensure the completeness and accuracy of the information provided.

Signature of applicant

Date:

Place: