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

ADVERTISEMENT NO: R&D/1245/TMB/461   **DATED: 16.04.2025**

Project No. TMB-1245

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   : Junior Research Fellow (JRF)

   (b) Number of Post   : 01 (One)

   (c) Duration of the Post   : 1 year initially followed by extension subject to satisfactory performance

2. Name of the temporary research project   : Transient moving body simulation CFD capabilities with overset mesh in unstructured grid frame work

3. Name of the sponsoring Agency   : Space Science Promotion – 2792, Respond Scheme, ISRO

4. Consolidated Fellowship/Salary   : 37000 + 10 % HRAfor the first two Years

5 .Minimum Eligibility for Qualifications & Experience:

   a) Graduate/Post-graduate Degree in Mechanical, Aerospace, Computer Science and Engineering, or, related branches with a minimum CPI of 6.5 or, 60% of marks.

   b) The candidate must be selected in the above program through any one of the following:

      a. GATE/NET Qualifying examination

      b. The selection process through national level examinations conducted by central government departments and their agencies and institutions such as DST, DBT, DAE, DOS, DRDO, MOE, ICAR, ICMR, IIT, IISc, IISER, etc.

   c) The requirement of GATE score is waived for candidates with bachelor's degree in engineering from the Centrally Funded Technical Institutes (CFTIs) with CGPA >8.0 and above (out of 10) and other IITs.

   d) The age should not exceed 28 years for a candidate with BE/B.Tech/M.Sc. degree as the highest qualification and 32 years for a candidate with ME/M.Tech/MS degree as the highest qualification.

   e) Relaxations for SC/ST/OBC/women/PD will be given as per the GOI norms.

Candidates with relevant work and/or prior research experience in the fields of aerospace, code development, having good, applied knowledge of programming languages like C/C++ are encouraged to apply. The selected candidates will be allowed to apply for PhD program of ME department at IIT Patna following proper procedure.

6. Description of the OFFLINE MODE of the selection process:

Application procedure:

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

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 investigatorsDr. Ashwani Assam, Department of Mechanical Engineering, IIT Patna (Email IDs: aashwani@iitp.ac.in , ashwaniassam@gmail.com).

2. The **subject of the email**should read as "*JRF Position* TMB-1245". The last date for receiving this email is **25th April2025**.

3. The email MUST include the **scanned/pdf copy of the duly filled application form**(see attached Word document) with the applicant's signature.

4. The email MUST include self-attested scanned **pdf copy of all supporting documents** (degree certificates, mark-sheets, GATE scorecard (if any), and category certificate, if applicable).

5. Copy of all (if any) Scopus-indexed **journal papers** should be attached with the email.

6. The application should additionally include a **500-word statement of purpose (SOP)**. 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.

7. The application should also include a brief **Academic CV** not exceeding two pages.

Note: This project is 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 an interview call if other candidates with higher qualifications 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 **25th April 2025** (deadline) and are shortlisted will be informed regarding the further details by 26thApril 2025. The date of online interview will be announced and informed to the shortlisted candidates in due course of time.

8. **About the Project:**The project aims to develop overset grid algorithm on an existing in-house/open-source CFD code. The overall objective is to solve moving body problems associated with complex geometries.

   As part of the project, the applicant will be required to travel and spend time at the Vikram Sarabhai Space Centre (VSSC), ISRO in Thiruvananthapuram, during the later stages of the project for implementation of developed algorithm in ISRO in-house-CFD

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

code. For further details on the research project, applicants are encouraged to contact **Dr. Ashwani Assam (aashwani@iitp.ac.in)**.

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: R&D/SP/ME/TMB/2024-25/1245

ADVERTISEMENT NO: R&D/1245/TMB/461   **DATED: 16.04.2025**
FORMAT OF APPLICATION FOR Junior Research Fellow

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
	10th Class		
	12th 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)	
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: