

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

ADVERTISEMENT NO: R&D/622/DSB/604**DATED: 02.07.2026**

Project No. DSB-622

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 – I (RA-I)
- (b) Number of Post : 01 (one)
- (c) Duration of the Post : 6 months
2. Name of the temporary research project : Decoding the Science of Boiling via Bubble Acoustics: Towards Pre-emptive Control of Vapor Explosion in Industrial Applications
3. Name of the sponsoring Agency : ANRF
4. Consolidated Fellowship/Salary : Rs 58000 per month + HRA (as per GoI rules)
5. Qualifications & Experience : Ph.D. (Mechanical, Aerospace, and Chemical, or equivalent, thesis submitted will be considered) 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, Thermal, Chemical, Aerospace, or equivalent) with 3 years' experience in an area relevant to 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-1 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 and experimental heat transfer. Expertise in designing and fabricating experimental test rigs and setups is desired.

6. Important Instructions for Applying to RA-1 Position (Project Code: DSB-622)

1. Candidates interested in this position and meeting the qualification criteria with relevant research experience must send an email to the **Principal Investigator (PI), Dr. Rishi Raj**, Department of Mechanical Engineering, IIT Patna.
Email IDs:
 - o rraj@iitp.ac.in
 - o rraj.iitp@gmail.com (include all)
2. The **subject line** of the application email **must read:**
“RA-1 Position DSB-622”
3. The **last date** for receiving completed applications is **18th July 2026**.
4. The application email **must include the following attachments** (in **PDF format only**):
 - o **Duly filled and signed application form** (see attached Word document)
 - o **Self-attested scanned copies** of all relevant supporting documents:
 - Degree certificates and mark sheets
 - GATE scorecard (if applicable)
 - Category certificate (if applicable)

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- Copies of all **Scopus-indexed journal publications**
 - A **Statement of Purpose (SOP)** (maximum 500 words) explaining:
 - Relevance of previous experience to this project
 - Motivation and specific skills that make the candidate suitable for the research
 - A brief **Academic CV** (not exceeding two pages)
5. In addition to the above, **minimum one (preferably two) recommendation letters** must be sent **directly by the referees** to the same email addresses **by the application deadline**.
- For candidates holding a Ph.D. as the highest qualification, **one letter should be from the Ph.D. supervisor**.
6. **All documents must be sent in a single email**. Multiple submissions or partially complete emails will not be accepted.

⚠ Important Note

All application instructions above **must be followed strictly and to the letter**. IIT Patna reserves the right to **reject any application lacking complete information or supporting documents**, without seeking clarification. Any deviation from the stated requirements may result in disqualification.

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7. **Shortlisting:** Candidates who submit complete applications by the deadline will be informed about the result of the shortlisting process by **20th July 2026**. The **online interview date** will be communicated subsequently.
8. **Final Selection:** Please note that this project is **highly specialized, time-bound, and target-oriented**. Meeting the minimum qualification and experience criteria **does not guarantee an interview call**, especially if other candidates with stronger credentials are available.

9. **About the Project:**

Applicants may contact **Dr. Rishi Raj** for further information. To learn more about the research activities at TFTL IIT Patna, please visit:

- www.iitp.ac.in/~rraj

Assistant Registrar

Copy to:

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