

INDIAN INSTITUTE OF TECHNOLOGY, ROORKEE
Department of Mechanical and Industrial Engineering

Dated: 29-09-2025

ADVERTISEMENT TO FILL UP PROJECT POSITIONS*

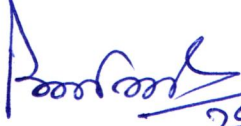
Applications are invited from Indian nationals only for project position as per the details given below for the research project under the Principal Investigator **Prof. Pradeep Kumar Jha**, Department of Mechanical and Industrial Engineering, Indian Institute of Technology, Roorkee.

1. **Title of project:** Investigation on Casting Parameters optimization and solidification behavior of melt cast/cast cure explosives
2. **Sponsor of the project:** TBRL, DRDO, Chandigarh
3. **Project position(s) and number:** Research Associate (RA-II) - 01
4. **Qualifications:** Ph.D. in Mechanical Engineering
5. **Emoluments:** ₹ 61,000 per month + 10% HRA
6. **Duration:** 2 years
7. **Job description:** The project aims to develop and validate numerical models and optimize processing parameters for melt-cast and cast-cure explosives. The candidate is expected to have:
 - Strong working knowledge of casting and solidification.
 - Computational skills in modelling solidification and fluid flow (FEM/CFD).
 - Familiarity with tools used for solidification analysis like AnyCast/ProCast.
 - Hands-on experience with recording and analyzing real-time casting data.
 - Proficiency in microstructural and phase characterization.
 - Strong technical writing and communication skills with experience in reports and journal papers.

Application Process

1. Candidates before appearing for the interview shall ensure that they are eligible for the position they intend to apply.
 2. Candidates desiring to appear for the Interview should submit their applications (as a single PDF file) with the following documents to the office of Principal Investigator through email (**pradeep.jha@me.iitr.ac.in**), with the subject **Application for RA-II for TBRL project**.
 - Application on a plain paper with detailed CV including chronological discipline of degree/certificates obtained.
 - Experience including research, industrial field and others.
 - Attested copies of degree/certificate and experience certificate.
 3. Candidate shall bring along with them the original degree(s)/certificate(s) and experience certificate(s) at the time of interview for verification.
 4. Preference will be given to SC/ST candidates on equal qualifications and experience.
 5. Please note that no TA/DA is admissible for attending the interview.
- The last date for application to be submitted to office of Principal Investigator is 12-10-2025 by 5 PM.

The interview date will be conveyed to the selected candidates by email after shortlisting.


29-09-2025

(Prof. Pradeep Kumar Jha)
Name and signature
of Principal Investigator

Tel: 01332285871

Email: pradeep.jha@me.iitr.ac.in

*To be uploaded on IIT Roorkee website and copy may be sent to appropriate addresses by PI for wider circulation.

Approved


डीन (सि.क.)/Dean SRIC
भा. प्रौ. सं. रुड़की/IIT Roorkee


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