भारतीय प्रौद्योगिकी संस्थान तिरुपति
INDIAN INSTITUTE OF TECHNOLOGY TIRUPATI
CENTRE FOR
SPONSORED RESEARCH AND CONSULTANCY
Yerpedu – Venkatagiri Road, Yerpedu Post, Tirupati District, A.P – 517619

**No.: Advt/ IITT/CSRC/2025-26/17** **Date: 16-09-2025**

Applications are invited from eligible Indian national for the post of JRF in a time bound GTRE sponsored project undertaken in the Department of Civil & Environmental Engineering

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| **Position** | **JRF** |
| **Essential Qualification** | BE/BTech or equivalent degree in Civil Engineering, with 55%* (CGPA of 5.5*) marks and passing of NET/GATE test.<br><br>Relaxation of CGPA: 5.0 for OBC/EWS, 5.0 for SC/ST/PWD. Relaxation of marks: 50% for OBC/EWS, 50% for SC/ST/PWD |
| **Desirable Qualification** | MTech/MS in Structural Engineering/Civil Engineering (Specialization: Structural Engineering)/ Construction Technology & Management/Construction Engineering & Management/ Building Science & Technology/relevant discipline with minimum marks 55% (or CGPA 5.5)<br><br>*Technical Skills:*<br><br>• Knowledge of concrete technology, construction materials, and structural engineering concepts.<br>• Familiarity with laboratory testing of concrete/structural elements (flexural, shear, bond tests).<br>• Basic understanding of 3D printing in construction or willingness to learn.<br>• Proficiency in data analysis and documentation (MS Excel, MATLAB, or similar tools).<br><br>*Additional Desirable Skills:*<br><br>• Experience in structural engineering software (STAAD, ETABS, SAP, ANSYS, ABAQUS, or similar).<br>• Research aptitude with exposure to experimental studies.<br>• Good technical writing and communication skills for report and paper preparation. |
| **Project Number** | CIE2526003CSIRBIJI |
| **Project Title** | Full scale structural testing of flexure elements made with concrete 3D printed lost framework |
| **Sponsoring Agency** | Council of Scientific and Industrial Research (CSIR) |
| **No. of positions** | 01 |
| **Monthly Salary** | 37,000/- +HRA per month for first two years, 42000/- +HRA for last year on successful conversion to SRF |

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| **Principal Investigator (IITT)** | Dr. Bijily Balakrishnan<br><br>Co-PI: Dr A V Rahul |
| **Department** | Department of Civil & Environmental Engineering |
| **Project Duration** | Initially for ONE year, with a possible extension of Two years based on performance<br><br>*Maximum tenure: 3 years* |
| **Brief Project Description and Nature of Work** | This project explores the use of 3D printed lost formwork filled with self-compacting reinforced concrete for structural applications. The work involves testing flexural members, studying bond behavior between printed formwork and concrete, and developing basic design guidelines and testing protocols for such composite systems.<br><br>Project staff will assist with specimen preparation, laboratory testing, data analysis, and report writing. The role provides hands-on experience in advanced construction materials, structural testing, and 3D printing applications in civil engineering. |
| **Age Limit** | Upper age limit 28 years (The upper age limit is relax-able up to 5 years in the case of candidate belonging to scheduled castes/tribes/OBC, women and physically handicapped candidates). |
| **Last date of application** | 30-09-2025 |
| **Application Link** | https://forms.gle/eZ7DbF7s3m7PVjr67 |

Eligible candidates must send their **detailed CV (maximum 2 to 3 pages)** specifying the qualifications and experience with scanned copy of experience certificate and marksheets from class X till date

The shortlisted candidates will be informed by **E-mail only**. Selection will be based on the qualifications, experience and in-person interview at IIT Tirupati. **No TA/DA shall be paid to candidates appearing for an interview**. The interview date will be notified to the shortlisted candidates by email. For any queries send mail to mailto: csrc_recruitment@iittp.ac.in

IIT Tirupati also reserves the right to discontinue the position with 1 month notice if the performance is not satisfactory.

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