



# Indian Institute of Technology Indore

## Department of Civil Engineering

### **Advertisement for Junior Research Fellow in SERB funded Core Research Grant Project**

Applications are invited from motivated and eligible candidates for the position of **Junior Research Fellow** (JRF) in a research project entitled “**A comprehensive rheology based thixotropic fluid flow model for improved control on 3D printing of concrete**” sponsored by the Science & Engineering Research Board, Department of Science and Technology, Government of India.

**About the project:** The project is focused on improving the fundamental understanding of rheology or fresh properties of cement or similar thixotropic fluids. The project is aimed at improving the field application of 3D printing in construction.

**Key responsibilities:** Selected JRF will be involved in rheological investigations of cement-based composites and analysis of their thixotropic behaviour.

**Duration:** Initial appointment is for one year, which is extendable further based on performance up to the project duration. Selected candidate may be considered for admission to Ph.D. Programme as a regular full-time scholar at IIT Indore.

**Emolument:** Rs. 31,000 per month (Rs. 35,000 per month after conversion to SRF, as per MHRD guidelines.)

**Eligibility:** **Essential Qualification:** First Class B.E./B.Tech./M.E./M.Tech in Civil Engineering or related branch.

GATE score in Relevant area is mandatory

**Age limit:** 30 years. Relaxation for SC/ST/OBC candidate as per Government of India norms.

A fundamental understanding of rheology and 3D printing is desirable but not necessary for selection.

Interested candidates are required to submit a detailed CV to Prof. Sandeep Chaudhary, Department of Civil Engineering, Indian Institute of Technology Indore, via email: [schaudhary@iiti.ac.in](mailto:schaudhary@iiti.ac.in). The subject line should necessarily mention “JRF under CRG SERB.”

Please note that the CV should include contact details (address, mobile phone no., email ID), date of birth, qualifications mentioned clearly. Complete information regarding NET/GATE score such as year of passing and validity, discipline, score, marks, All India Rank and number of candidates appeared should be mentioned in the CV. Incomplete applications will be rejected.

**The last date for submission of applications is April 09, 2021. Only shortlisted candidates will be intimated by email for the online interview.**