

**INDIAN INSTITUTE OF TECHNOLOGY, ROORKEE
(Civil Engineering Department)**

Dated: 6th October 2025

ADVERTISEMENT TO FILL UP PROJECT POSITIONS*

Applications are invited from Indian nationals only for project position(s) as per the details given below for the consultancy/research project(s) under the Principal investigator (Name: **Prof. Sonalisa Ray**), Dept./Centre **Civil Engineering Department, Indian Institute of Technology, Roorkee**.

1. **Title of project:** Ultra-High-Performance Concrete for Building Applications: Development and design parameters
2. **Sponsor of the project:** NBCC (India) Limited
3. **Project position(s) and number:** Research Associate-I (01)
4. **Qualifications:** PhD in Civil Engineering from a reputed institute (such as IITs, IISc, or CSIR laboratories) with experimental research experience in cementitious or advanced concrete materials. Candidates with exposure to UHPFRC and good-quality journal publications will be given preference.
5. **Emoluments:** Rs. 58,000 + HRA per month
6. **Duration:** One year, extendable further till the project completion date based on performance.
7. **Job description:** The project aims to optimize the mix-design parameters of ultra-high performance concrete for its application in the building infrastructure and to establish associated design parameters. Investigations would be carried out to characterize essential mechanical and fracture parameters. The nature of work would be experimental, analytical and numerical. The candidate has to carry out the research work, planning and execution of project-related activities, prepare presentations, reports and related manuscripts, publication, overall coordination of the project and other work as assigned by the principal investigators. For more details of the work or any other queries, the principal investigator may be contacted.
8. Candidates before appearing for the interview shall ensure that they are eligible for the position they intend to apply.
9. Candidates desiring to appear for the interview should submit their applications with the following documents to the office of Principal Investigator **through email only as a single PDF file in the following order (failing to do so, their applications will not be considered for the shortlisting procedure)**.
 - Application with detailed CV including chronological discipline of degree/certificates obtained.
 - Copy of certificates, mark sheets and relevant experience certificate (research and industrial field).
10. Preference will be given to SC/ST candidates on equal qualifications and experience.
11. Please note that no TA/DA is admissible for attending the interview.
12. The last date for the application to be submitted to the Principal Investigator through email is **15th October 2025**

Shortlisted candidates will be invited for the interview via email.

Tel: 91-1332-285673

Email: sonalisa.ray@ce.iitr.ac.in

Sonalisa Ray
Dr. Sonalisa Ray, Ph.D.
Professor
Department of Civil Engineering
Indian Institute of Technology Roorkee
Roorkee-247 667, Uttarakhand, INDIA

Sonalisa Ray 06-10-25
Name and signature
of Principal Investigator

APPROVED

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

Dean 06/10/25
Sponsored Research & Industrial Consultancy
Indian Institute of Technology Roorkee
Roorkee-247 667 (INDIA)

S Paul
06.10.25

06/10/25