

INDIAN INSTITUTE OF TECHNOLOGY ROORKEE
DEPARTMENT OF CIVIL ENGINEERING

Adv No. 2374

Date: 14/08/2026

Advertisement for the position of Post-Doctoral Fellow

Title of project: Engineering Behavior of a Foundation Placed on Orthogonally Staggered Jointed Rock Mass Laterally Supported by an Excavation Wall

Application Procedure

- Candidates should submit a covering letter, a curriculum vitae, a PhD degree (Provisional or final certificate), and a list of publications with the DOI.
- All documents in a single PDF file by e-mail to: aditya.singh@ce.iitr.ac.in.
- Last date for submission of application is **August 30th, 2026**. Applications received beyond this date will not be considered.

Minimum Qualification

- The candidate must have completed a Ph.D. in the area of Rock Mechanics.
- The candidate must have published 2 journal articles in a Q1 journal, as per Clarivate, as first author from his/her Ph.D. research.
- Expertise in Discrete Element Method (DEM) and physical modeling of jointed rock mass.

Duration and fellowship amount

The fellowship will last **two years**. Either party may terminate the fellowship by giving one month's notice. A consolidated fellowship of **Rs. 80,000 (+ HRA) per month for two years** and a contingency of **Rs. 50,000/year** will be awarded to Post-Doctoral Fellows.

Responsibilities

- Conduct DEM-based numerical modeling to investigate the behavior of foundations placed on orthogonally staggered jointed rock masses and laterally supported excavation walls.
- Design and conduct physical model experiments to evaluate load transfer, deformation, failure mechanisms, and rock–foundation–excavation wall interaction.
- Analyze and correlate numerical and experimental results, and disseminate the research outcomes through high-quality journal publications and technical reports.

About the Department of Civil Engineering

The Department of Civil Engineering at IIT Roorkee is one of India's oldest and leading centers for civil engineering education and research, with a rich legacy dating back to 1847. The Department offers undergraduate, postgraduate, and doctoral programs in diverse areas, including Structural, Geotechnical, Environmental, Transportation, Hydraulics, and Geospatial Engineering. It has a strong research culture supported by experienced faculty, advanced laboratories, computational facilities, and extensive sponsored research and consultancy activities. The Department provides an interdisciplinary and vibrant academic environment for cutting-edge research addressing contemporary challenges in infrastructure, sustainability, natural hazards, and resilient development.

Head of the Department
Civil Engineering

Indian Institute of Technology Roorkee

कार्यवाहक विभागाध्यक्ष / Acting Head

जाओ अभि वि० / Deptt. of Civil Engg.

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