SRIC/06

INDIAN INSTITUTE OF TECHNOLOGY, ROORKEE
INTERNATIONAL CENTRE OF EXCELLENCE FOR DAMS

Dated: Feb. 24, 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 (Prof. M.L. Sharma, ICED), Indian Institute of Technology, Roorkee.

1. Title of project: **Development of International Centre of Excellence for Dams (ICED) (ICED-2043-MJS)**
2. Sponsor of the project: CWC, New Delhi
3. Project position(s) and number: Research Associate = 02 Nos.
   Project Fellow = 02 Nos.
4. Qualifications: Annexure - I
5. Emoluments: Rs. 30,000/- to 75,000/- per month + HRA (Research Associate)
   Rs. 40,000/- to 1,00,000/- per month + HRA (Project Fellow)
6. Duration: One year
7. Job description/Broad fields of work: Annexure - I
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 the Principal Investigator through email, by post, or produce at the time of the Interview:
   - Application in a plain paper with detailed CV including chronological discipline of degree/certificates obtained.
   - Attested copies of the degree/certificate and experience certificate.
10. Candidate shall bring along with them the original degree(s)/certificate(s) and experience certificate(s) at the time of interview for verification.
11. Preference will be given to SC/ST candidates on equal qualifications and experience.
12. Please note that no TA/DA is admissible for attending the interview.
13. Walk-in interview of the candidates will be held on **March 27, 2026, at 10.00 A.M.** in ICED, IIT Roorkee.

Tel: 01332-285654 Email: head@iced.iitr.ac.in

(M.L. Sharma)
Professor & Principal Investigator

Copy to: 1. Dean, SRIC, IIT Roorkee
2. ICC for publication on the IIT Roorkee website.

(M.L. Sharma)
Professor & Principal Investigator

Email: head@iced.iitr.ac.in

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

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Annexure – I

Project Positions, Qualifications, and Fellowships/Emoluments

Sl. No	Fellowships/Emoluments	Minimum Qualifications*	Broad Field of Work
1	Research Associate	**Minimum Qualifications**: M.Tech in Civil Engineering/ Structural Engineering/ Dam Safety & Rehabilitation or equivalent or Ph.D. in a relevant field, preferably from NITs/IITs/IISc or higher institutes. **Desirable Skills**: Proficiency in Abaqus, Ansys, or LS-Dyna, Python scripting, Experience in modelling dam-reservoir-foundation interaction, alkali-aggregate reaction (AAR), and development of user-defined subroutines.	Numerical modelling of gravity dams, power houses, and intake structures. Automation of data extraction and post-processing using Python scripting, Preparation of detailed technical reports, design validations, and participation in field visits
2	Research Associate	**Minimum Qualifications**: M.Tech in Civil Engineering/ Geotechnical Engineering/ Dam Safety & Rehabilitation or equivalent or Ph.D. in a relevant field, preferably from NITs/IITs/IISc or higher institutes. **Desirable Skills**: Proficiency in Plaxis 2D/3D, Geostudio, RS2, handling data extraction and post-processing using Python scripting, deconvolution of ground motions, experience in constitutive models PM4 Sand, UBC Sand, HSS.	Numerical modelling of soil and rock masses for embankment dam stability, deconvolution of ground motions, geotechnical investigations and stability analysis of dams, report preparation, and field visits.
3	Project Fellow	**Minimum Qualifications:** M.Tech in Civil Engineering/Structural Engineering/Dam Safety & Rehabilitation or equivalent + 3 years of experience, or a Ph.D. in a relevant field with 2 years of experience after the Ph.D., preferably from NITs/IITs/IISc or higher institutes. **Desirable Skills**: Proficiency in Abaqus, Ansys, or LS-Dyna, Python scripting, Experience in modelling dam-reservoir-foundation interaction, alkali-aggregate reaction (AAR), and development of user-defined subroutines.	Numerical modelling of gravity dams, power houses, and intake structures. Automation of data extraction and post-processing using Python scripting, Preparation of detailed technical reports, design validations, and participation in field visits
4	Project Fellow	**Minimum Qualifications:** M.Tech in Civil Engineering/Geotechnical Engineering/Dam Safety & Rehabilitation or equivalent + 3 years of experience, or a Ph.D. in a relevant field with 2 years of experience after the Ph.D., preferably from NITs/IITs/IISc or higher institutes. **Desirable Skills**: Proficiency in Plaxis 2D/3D, Geostudio, RS2, handling data extraction and post-processing using Python scripting, deconvolution of ground motions, experience in constitutive models HSS, PM4 Sand, UBC Sand.	Numerical modelling of soil and rock masses for embankment dam stability, deconvolution of ground motions, geotechnical investigations and stability analysis of dams, preparation of reports, and field visits.

*All Candidates must have excellent academic performance and must be GATE qualified. The essential qualifications may be relaxed in exceptional cases.

APPROVED

(M.L. Sharma)
Professor & Principal Investigator

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