

INDIAN INSTITUTE OF TECHNOLOGY, ROORKEE
International Centre of Excellence for Dams (ICED)

DEPARTMENT OF OFFICE IIT ROORKEE
No. 4117 Dated 25/8/23
Shikha P
Supdt. A.R. (Admin)
Dated: August 24, 2023

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. N. K. Goel, International Centre of Excellence for Dams, 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: Central Water Commission, New Delhi
3. Project position(s) and number: Post Doctoral Fellow – 06 Nos.
4. Qualifications: Annexure I.
5. Emoluments: Rs 40,000 to 100,000 + HRA.
6. Duration of Fellowship: The duration of the fellowship will be two years, extendable for another three years on a yearly basis, depending upon the performance and availability of funds.
7. Job description: Annexure I.
8.
 - i. Candidates, before appearing for the interview, shall ensure that they are eligible for the position they have applied for.
 - ii. Candidates desiring to appear for the Interview should submit their applications with the following documents to the office of the Principal Investigator through email or by post:
 - Application in plain paper with a detailed CV including chronological discipline of degree/certificates obtained.
 - Experience including research, industrial field, and others.
 - Attested copies of degree/certificate and experience certificate.
 - iii. Candidate shall bring along with them the original degree(s)/certificate(s) and experience certificate(s) at the time of interview for verification.
 - iv. Preference will be given to SC/ST candidates on equal qualifications and experience.
 - v. Please note that no TA/DA is admissible for attending the interview.

The last date for applications to be submitted to the office of the Principal Investigator is **Sept. 24, 2023, by 5 PM.**

The date of the interview shall be communicated to the shortlisted candidates only.

Tel: 01332-285654; Mobile: +91-9412393851

email: coordinator@iced.iitr.ac.in

N.K. Goel
25/8/2023
(Prof. N.K. Goel)

Professor and Principal Investigator, ICED

Dr. N.K. Goel

Professor & Coordinator

International Centre of Excellence for DAMS
Indian Institute of Technology Roorkee
Roorkee-247667 (India)

Copy:

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

APPROVED

Abhishek
28/8/23
डीन (सिक)/(Dean SRIC)
भा. प्रौ. सं. रुड़की/IIT Roorkee
25.08.23

26/8/23

Qualifications and Job Description

Broad Areas:

- i. Seismic hazard mapping and seismic analysis -2
- ii. Reservoir sedimentation, silt management - 2
- iii. Comprehensive risk assessment, River Engineering, reservoir operation, dam designs, design of hydraulic structures, Dam break modelling, flood estimation and forecasting, climate change applications in hydrological designs- 2

Essential Qualifications:

- (a) Ph. D. in Hydraulics/Water Resources Engineering/ Hydrology/ Geotechnical Engineering/ Earthquake Engineering/ Structural Engineering/ Geology/ Geophysics/Earth Sciences/Geomatics or related field with bachelor's and master's degree in the relevant field.
- (b) First class at bachelor and Master level with CGPA > 8.0 (Scale: 10) or 80% marks.
- (c) At least two publications in reputed referred journals.

Desirable Qualifications:

1. The candidates should have field experience in applications in dam engineering.
2. Knowledge of seismic hazard analysis and engineering seismology
3. Knowledge and working experience in finite elements and seismic analysis of gravity dams.
4. Knowledge of comprehensive risk assessment
5. Knowledge of Sediment transport, Channel hydraulics, hydraulic structures, 1D & 2D hydrodynamic and morphologic numerical modelling in channel/ reservoir, and physical modelling of hydraulic structure and rivers.

Job Description

The prospective candidates are expected to contribute towards the following:

- i. Carry out research in the broad fields of ICED.
- ii. Participation in the short-term training programs of the Centre at IIT Roorkee and or at dam sites in India and abroad.
- iii. Participation in the teaching of M Tech. programs,
- iv. Mentoring Masters' and PhD students.
- v. Development of the labs of the centre, developing MoUs and collaborations with National and International firms and organisations in Dam engineering.

Note: All the Postdoctoral Fellows (PDF) will be registered as IIT Roorkee students for availing the facilities of accommodation, hospital, medical insurance scheme, computer centre, library, sports etc.


(Prof. N. K. Goel)

Professor and Principal Investigator, ICED