



डॉ० थंगराज चेल्लैया
प्राध्यापक एवं विभागाध्यक्ष
Dr. Thanga Raj Chelliah
Professor & Head

भारतीय प्रौद्योगिकी संस्थान रुड़की
जल संसाधन विकास एवं प्रबन्धन विभाग
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INDIAN INSTITUTE OF TECHNOLOGY ROORKEE
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ADVERTISEMENT FOR POST DOCTORAL FELLOWSHIP POSITION

The Department of Water Resources Development and Management at the Indian Institute of Technology Roorkee invites applications from outstanding and enthusiastic researchers for a postdoctoral position under the mentorship of Prof Anshul Yadav focused on "**Development of Self-Cleaning Photocatalytic Composite Membranes for Simultaneous Filtration and Degradation of Emerging Contaminants in Wastewater**".

The last date for the submission of the application is **5th July 2026** Applications received after this date will not be considered. Interview will be conducted (Online/Offline) after this date on **10th July 2026** for the shortlisted candidate only.

QUALIFICATIONS, SPECIALISATION, EXPERIENCE and PROFILE

Essential qualifications:

- Ph.D. in Chemistry/Chemical Engineering. The Ph.D. work should be in areas related to water treatment/photocatalysis, with strong hands-on experience in nanomaterial synthesis, fabrication, functionalization and characterization.
- Minimum of two first author research articles in SCI-indexed international peer-reviewed journals.

Desirable experience

- Prior experience in using a range of materials characterization techniques such as XRD, SEM, TEM, XPS, FTIR, AFM, PL, TGA, etc.).
- Prior experience working on membrane-based systems, particularly those designed for self-cleaning or antifouling properties.

Candidates can lead independent research and may have demonstrated skill to do independent research; help in PhD supervision/ Project proposal writing/ Scientific report preparation.

DURATION & FELLOWSHIP AMOUNT

The duration of the fellowship will be 2 years. The Fellowship may be terminated by either side by giving one-month notice. A consolidated fellowship of **Rs. 80,000.00 per month** for two years and a **contingency of Rs. 50,000.00 per annum** will be awarded to Post-Doctoral Fellows.

Anshul Yadav

HOW TO APPLY?

Candidates should clearly mention Advt. No. and date with title of the position applying for with a covering letter, curriculum vitae, three (03) names of referees, list of publications (**highlighted with the most relevant publication(s) for the post**), research statement describing past research and plans for future research in the context of the focus for which the post is being advertised (mandatory) all in a single PDF file by e-mail. to: anshul.yadav@wr.iitr.ac.in

Notes:

- (i) Post-doctoral Fellows will be registered as students avail facilities of library, computer center, available hospital facilities etc. They will be entitled to 2.5 days of leave per complete calendar month. No carry forward for leave will be allowed beyond a calendar year. PDF positions are purely temporary. The benefits applicable to permanent employees like LTC and PDA are not applicable.
- (ii) The screened candidates will be intimated to attend interviews in-person (or online, as desired). No TA/DA will be re-imbursed for attending the interview.

ABOUT THE DEPARTMENT

The department was established in 1955 as an Asian African Centre to honor India's commitment at the Asian African Conference held in Bandung, Indonesia. The Department offers three Post-Graduate programs, i.e. Water Resources Development (WRD) (for Civil/Electrical/Mechanical Engineers), Irrigation Water Management (IWM) (for Civil/Agricultural Engineers/Agricultural Scientists) and Drinking Water & Sanitation (DWS) (for Civil/Environmental/Mechanical/Agricultural/Chemical Engineers/B.Arch and Planning). These programs' duration is 24 months, including lectures, practical, educational tours, project reports, and dissertations. These Master of Technology (M. Tech) programs are unique to provide knowledge in fields through credit-based course works. Furthermore, there are three diploma programs of 12 months duration covering the same course work as the Post Graduate programs excluding dissertation. The programs are updated continuously, and the latest subjects such as Remote Sensing, GIS, On-farm Water Management, AI & Machine Learning, Climate Change impacts, etc., are incorporated to add great contemporary value. The department is actively involved in research, development and extension activities in the areas of water resources, hydropower and irrigation management. The department provides consultancy services for irrigation, flood control, drainage, groundwater development and power sectors. The objective of the Department is to develop manpower that can take the responsibility of sustainable development and environment friendly management of the available water resources. Non-conventional methods for utilization of water such as cropping system modeling & planning, inter-basin transfer, ground water recharge through rainwater harvesting are especially incorporated in the course curricula. The department has so far trained over 3,045 in service engineers and agricultural scientists from 56 countries including India. (For more details, please visit: <https://wr.iitr.ac.in/>)

Anshul Yadav

ABOUT THE INSTITUTE

IIT Roorkee has its roots in Roorkee College, which was set up in 1847. It was renamed as the Thomason College of Civil Engineering in 1854. The College laid the foundation of modern engineering education and the use of Civil Engineering practices in the infrastructure development of the country. The irrigation infrastructure in the form of dams and canals, roads and highways, railway, bridges, etc. in the country, all have been the outcome of the engineering education imparted in this, the only engineering institution in the country, at that point of time. It got elevated as the first technical University of the country in 1948 through the University of Roorkee Act, 1947 passed by the United Provinces Legislature. University of Roorkee also became the first institution in the country to offer postgraduate programs engineering and technology in 1955. On September 21, 2001, the University was converted into an IIT by the Government of India through an Act of Parliament and recognized as an Institution of National importance. Roorkee is the entry point of Uttarakhand state. It is on the way to Haridwar from Delhi.

(For more details, please visit <https://www.iitr.ac.in>.)

Anshul Yadav
2/6/26
(Mentor)

L. M. Tri
2/6/26
(Head of the Department)

Department of Water Resources Development and Management
IIT Roorkee, Roorkee-247667 (Uttarakhand)

विभागाध्यक्ष/Head

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भा. प्रौ. सं. रुड़की/IIT Roorkee