

Department of Hydrology  
Indian Institute of Technology Roorkee, Roorkee

Advt. No. HYD/PDF/2020/HJ/3523

Dated: 31/07/2020

**ADVERTISEMENT FOR POST DOCTORAL FELLOWSHIP POSITION**

Department of Hydrology at the Indian Institute of Technology (IIT) Roorkee invites applications from outstanding and enthusiastic researchers for a Post-doctoral position on a project **"EXPLORING THE EFFICACY OF CURRENT MUNICIPAL WASTEWATER (SEWAGE) TREATMENT TECHNOLOGIES TOWARDS BACTERIA AND ANTIBIOTIC RESISTANCE"**

The prospective candidate is expected to have a sound understanding in the areas of Municipal Wastewater microbiology and treatment. The candidate should have expertise in field scale monitoring of water/wastewater from variety of sources and its Physical, Chemical and Microbial analysis. The candidate is also expected to have knowledge of working of sewage treatment plants and constructed wetland systems. Laboratory experience and specialised training on specific Chemical and Microbial analysis like DNA extraction, Flow cytometry, PCRs and qPCRs will be preferred. Knowledge of antimicrobial resistance along with microbiological usage will be an added advantage.

Last date of application submission is August 31, 2020.

**Minimum Qualification and Experience:**

The prospective candidate should have Postgraduation/ M.Tech. and Ph.D. in Environmental Engineering/Science or related subject(s) with first class at Graduation and Postgraduation levels with a minimum of two (2) years experience.

Specialization: Microbiological role/usage in wastewater treatment systems including natural treatment systems like Phytoremediation.

The candidate should have quality publications.

Candidates who have recently submitted their doctoral thesis are also eligible to apply subject to the condition that they will furnish the proof of award of Ph.D at the time of interview and also fulfil all the abovementioned criteria.

**Duration and Fellowship amount:**

The duration of the fellowship will be of two years, extendable by one more year, if necessary. The candidate is expected to join the Department as soon as offer letter is released. The fellow will receive a consolidate fellowship as below, in addition with the contingency grant of Rs. 50,000/- per annum.

First Year: Rs. 55,000/- Per month

Second Year: Rs. 55,000/- Per month

Third Year: Rs. 60,000/- Per month (if extended)

**How To Apply:**

Candidate can apply with cover letter, curriculum vitae, list of publications (with the most significant publications highlighted), brief statement describing past research and also "A statement of candidate's approach towards this research project on a single A4 size page", by both regular mail and e-mail, to:

Prof. M.K Jain  
Professor and Head  
Department of Hydrology  
Indian Institute of Technology Roorkee  
Roorkee -247667  
INDIA

Email: [manoj.jain@hy.iitr.ac.in](mailto:manoj.jain@hy.iitr.ac.in) with a cc to [himanshu.joshi@hy.iitr.ac.in](mailto:himanshu.joshi@hy.iitr.ac.in)  
Phone: +91-1332-284336, 286534

#### **Important notes:**

- (i) All the envelopes and emails MUST have subject line "Application for Post-Doctoral Fellow Position"
- (ii) All the post-doctoral fellows (PDF) will be registered as IIT Roorkee students for availing the facilities of hostel accommodation, library, computer center, hospital etc. They will also be governed by the leave rules as applicable.
- (iii) All other rules and regulations, mentioned in the notification no. IITR/Rect./E-5508 dt.03 May2019 will be applicable.
- (iv) The candidates called for discussion/interview will be paid II-AC train fare from their place of residence/work and back by the shortest route within India.

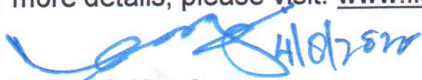
#### **About the Department:**

The Department of Hydrology is one among the 21 academic departments of the Indian Institute of Technology Roorkee. The Department came into existence with the inception of the International Post Graduate Course in Hydrology in 1972, being the first such a programme in a developing country. The courses, offered by the Department are presently sponsored by the Government of India and the UNESCO. The Department has eight dedicated full time faculty members having specializations in surface water hydrology (Floods, Droughts), water resources systems, watershed management, Geo-hydrology, ground water geophysics, stochastic hydrology, hydro-informatics, environmental hydrology, atmospheric physics, climate change etc.

#### **About the Institute:**

IIT Roorkee has its roots in the 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 in 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 Mussoorie and Haridwar from Delhi. IIT Roorkee has a beautiful green campus. Various sports facilities including Billiards, Swimming, Hockey, Football, and Yoga are available in the Campus. The Institute provides 100% accommodation to faculty members. A good C.B.S.E. School is available in the Campus which provides admission to the children of newly joining faculty members throughout the year.

For more details, please visit: [www.iitr.ac.in](http://www.iitr.ac.in)

  
**Professor & Head**  
**Department of Hydrology**  
**IIT, Roorkee**

Dr. M.K. Jain  
विभागाध्यक्ष / Head  
जल विज्ञान विभाग / Department of Hydrology  
भारतीय प्रौद्योगिकी संस्थान रुड़की  
Indian Institute of Technology Roorkee  
रुड़की / Roorkee-247 667 (U.K.)