भारतीय प्रौद्योगिकी संस्थान हैदराबाद
Indian Institute of Technology Hyderabad

Department of Civil Engineering
Indian Institute of Technology Hyderabad
Kandi, Sangareddy – 502 285, Telangana, India

Advertisement for one (1) JRF position in Hydraulics and Water Resources Engineering, Department of Civil Engineering, IIT Hyderabad

08 June 2026

Applications are invited from motivated candidates with good academic background, relevant research interests, and strong analytical and teamwork skills for the research project titled '*Investigating numerous realistic logjam scenarios in streams using model study: effects on the hydrodynamics and bed morphology*' in a purely time-bound manner undertaken in the Department of Civil Engineering, IIT Hyderabad. Further details are as follows:

Name of the post	Junior Research Fellow (JRF)
Title of the research project	Investigating numerous realistic logjam scenarios in streams using model study: effects on the hydrodynamics and bed morphology
Description of the job	Planning and conducting flume experiments, operating hydraulic instrumentation such as ADV, UDS, flowmeters, and point gauges, collecting and analyzing hydrodynamic and morphological data, and developing and validating numerical models using (preferably) an open-source CFD tool. It also includes data processing, interpretation of results, preparation of research publications, technical reports, presentation of findings at conferences, and assisting in the overall management of the laboratory work and other project activities.
Keywords	Natural stream, Logjam, Flume study, CFD, Hydrodynamics, Sediment transport
Sponsoring agency	Anusandhan National Research Foundation (ANRF)
Appointment period	6 months, extending to 3 years (renewal every 6 months, subject to satisfactory performance and continued funding availability). There is a possibility of enrolling in the PhD program, depending on the candidate's performance and the institute's norms.
Remuneration	Years 1-2: INR 37,000 per month + HRA as per the norms Year 3: INR 42,000 per month + HRA as per the norms
Application deadline	**22.06.2026 (5:00 pm)**
Essential qualifications	(i) First-class Bachelor's degree (B.Tech/B.E.) in Civil/Water Resources/Hydropower/Mechanical Engineering or in Applied Mechanics or in allied areas from a recognized university, **AND** (ii) First-class Master's degree (M.Tech/M.E./M.S.) in Hydraulic Engineering/ Hydraulic Structures/ Water Resources Engineering/ Hydrology/ Fluid Mechanics/ Hydromechanics/ Hydropower/ River Engineering/ Environmental Engineering or in allied areas from a recognized university.
Desirable qualifications	➢ Good understanding of fluid mechanics, hydraulics, sediment transport, and river engineering ➢ Interest in or Exposure to hydraulic laboratory experiments,

	flow measuring instruments, and numerical modeling. ➢ Familiarity with CFD tools such as OpenFOAM, FLOW-3D, REEF3D, STAR-CCM+, ANSYS Fluent/CFX, TELEMAC, Delft3D, or similar CFD packages. ➢ Basic programming skills in MATLAB, Python, C++. ➢ Interest/experience in scientific writing and critical thinking. ➢ Strong analytical, communication, and teamwork skills.
Research opportunity	➢ Work on a nationally and internationally significant research problem in hydraulic engineering, river engineering, and environmental hydraulics. ➢ Gain expertise in advanced experimentation in hydraulic engineering and CFD. ➢ Contribute to high-quality academic publications. ➢ Pursue a Ph.D. at IIT Hyderabad, subject to the institute norms and performance. ➢ Collaborate with researchers working in hydraulics, river engineering, and environmental fluid mechanics. ➢ Build an academic or industrial career in Hydraulics and Water Resources Engineering.
Age limit	30 years

- Eligible applicants are encouraged to apply via email by **22.06.2026 (5:00 pm)** by sending the **following documents in a single PDF file** to **subhokadia@ce.iith.ac.in** with the subject of email as "**Logjam-JRF ANRF**":
    1. Latest CV with photograph
    2. Scanned copy of degree certificates and grade sheets or transcripts for both bachelor's and master's
    3. Proof of date of birth
    4. Statement of Purpose
    5. Contact details of two academic/professional referees.
- Candidates will be shortlisted for an interview based on merit and the requirements of the project and will be communicated via email.
- Shortlisted candidates will be called for an online interview.
- The selected candidate is expected to join immediately.

For any queries, please contact the PI of the project:

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