



INDIAN INSTITUTE OF TECHNOLOGY GANDHINAGAR

Research & Development Office

ADVERTISEMENT NO. SPON/70142/Advt0300 DATED 17.08.2026

Applications are invited for a temporary position of **Post-Doctoral Fellow** at IIT Gandhinagar.
The details are as below:

Name of PI	Prof. Udit Bhatia	Department	Civil Engineering
Project title	Post Doctoral Researcher under GAPD Scheme & AICOE		
Designation	Post-Doctoral Fellow		
Number of positions	1		
Application Link	http://recruitment.iitgn.ac.in/projectstaff/		
Last date of application submission	25/08/2026		
Consolidated Monthly Remuneration	₹72,000/- to ₹84,000/- per month		
Duration of appointment	1 year (extendable based on satisfactory performance)		
Eligibility Norms	☒ Institute norms ☐ Funding Agency norms		
Essential Qualification/Experience as per the norm	● PhD in Civil Engineering, Water Resources Engineering, Hydrology, Environmental Engineering, Systems and Control, or a closely related field. Candidates who have submitted their doctoral thesis may apply, subject to Institute rules. ● Demonstrated research experience in at least two of the following areas: ● Mathematical or hydrological modelling of water systems; ● Urban drainage or flood modelling; ● Dynamical systems, system identification, optimisation, or control; ● physics-based or physics-guided data-driven modelling. ● Experience with numerical modelling and scientific programming. ● Evidence of research ability through peer-reviewed publications or comparable scholarly outputs. ● Strong written and oral communication skills and the ability to work in an interdisciplinary team. ● The percentage/grade points with respect to the academic qualifications will be a minimum of 60% or equivalent grade from Graduation onward and 55% or equivalent grade in class 10th and 12th.		

“Merely meeting the minimum eligibility criteria will not guarantee the shortlisting and/or appointment. A higher cutoff level may be used. The Institute reserves all rights, not to call an applicant for a selection test or not to fill up a position through this round of selection process without assigning any reason.”



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Desirable Qualification/Experience	• Hands-on experience with EPA-SWMM or a comparable hydrodynamic/hydrological modelling platform. • Experience in robust, adaptive, gain-scheduled or feedback control of water or infrastructure systems. • Familiarity with MATLAB and/or Python; experience with GIS tools and geospatial datasets is advantageous. • Experience combining sensor observations or forecasts with models for real-time prediction and operational decision-making. • Interest in physics-guided machine learning, uncertainty quantification, infrastructure networks and climate-resilient water systems.
Job Description	• Develop mathematical and control-oriented models of urban drainage, rainfall–runoff and water-depth dynamics. • Integrate high-fidelity hydrodynamic simulations with compact, interpretable and computationally efficient models. • Design robust, adaptive or model-based control strategies for flood mitigation under uncertain and time-varying conditions. • Explore physics-guided machine-learning methods for prediction, control and infrastructure-resilience applications. • Work with geospatial, hydrometeorological and sensor data; evaluate models for Indian urban or peri-urban case studies. • Publish research in high-quality journals and conferences, contribute to project deliverables, and collaborate with students and research partners.
Contact	Prof. Udit Bhatia Associate Professor, Civil Engineering bhatia.u@iitgn.ac.in (Only shortlisted candidates will be contacted for an interview. The selection will be made through IIT Gandhinagar's applicable recruitment process.)

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