భారతీయ సాంకేతిక విజ్ఞాన సంస్థ హైదరాబాద్
भारतीय प्रौद्योगिकी संस्थान हैदराबाद
Indian Institute of Technology Hyderabad

Advertisement for the Post of Junior Research Fellow

Applications are invited from motivated candidates for the position of Junior Research Fellow (JRF) in a time-bound research project titled **"Dynamic Range Estimation and Simulation of Tides with Immersive Visualization (DRSTI)"** at IIT Hyderabad.

Applications Deadline: 28th March, 2026
All applications to be submitted to the PI's email address as provided below.

Work area of the Project	**Tidal Modeling, Statistical Modeling, AI-ML, GIS,**	
Title of the Project	Dynamic Range estimation and Simulation of Tides with Immersive visualization (DRSTI)	
Brief information about the project	This project focuses on developing tidal modelling frameworks and estimating tidal range using numerical, statistical, and data-driven approaches (AI/ML), integrated with immersive visualization techniques. The selected candidate will work with faculty from the Department of Design and the Department of Civil Engineering at IIT Hyderabad on coastal data analysis and model development. The work may include field visits to coastal regions in Odisha for data collection and model validation. The position offers an opportunity to gain hands-on experience in coastal modelling, scientific computing, and AI/ML applications for ocean and climate data.	
Name of PI	Dr. Prasad Onkar	Email: psonkar@des.iith.ac.in
Name of Co-PI	Dr. Satish Regonda	Email: satishr@ce.iith.ac.in
Institute	Indian Institute of Technology Hyderabad, India	
Post(s)	**Consolidated Salary**	**Qualifications and Necessary skills**
Junior Research Fellow (JRF):	Rs. 37,000/- Consolidated	**Minimum educational qualifications**: B.Tech./B.E. (with GATE score) or M.Tech./M.S. (or equivalent) in Ocean Engineering, Civil Engineering, Mechanical Engineering, Computer Science, Earth Sciences, or a related discipline. **Required skills:** • Basic knowledge of coastal or tidal processes • Familiarity with numerical modelling or statistical analysis • Programming experience in MATLAB, Python, or similar scientific computing tools • Ability to work independently as well as in a multidisciplinary research team **Desirable skills:** • Experience with coastal/ocean modelling or hydrodynamic models • Exposure to data analysis and visualization techniques • Interest in AI/ML applications for environmental or ocean data Highly motivated B.Tech graduates interested in gaining research experience and pursuing higher studies (M.Tech/PhD) are strongly encouraged to apply using the following Google form: https://forms.gle/R3MZjXFcbeD7u7yx5

Note:

- Only shortlisted candidates will be contacted via email and informed about the date and mode (online/in-person) of the interview.
- The PI reserves the right to shortlist candidates based on qualifications and experience and to cancel the recruitment process without assigning any reason.
- Candidates with prior experience in relevant areas will be given preference.
- Candidates who are about to complete their degree may also apply. However, they must provide a provisional certificate from the Head of their institution at the time of joining.
- The appointment will be purely temporary for an initial period of six months and may be extended based on performance and project requirements.
- For any clarification regarding the position, candidates may contact the PI via email.