

Advertisement for Project Associate-1/JRF in DST Project

Online Interview for the post of Project Associate (JRF) in the DST funded project at IIT Mandi.

Title of Research Project: *An extensometer-based monitoring and early warning system for rainfall-induced landslides.*

Detail regarding project: Landslide Hazard Mitigation is an interdisciplinary and multi-institutional research program being coordinated by the DST under Innovation, Technology Development and Deployment. A novel technique has been developed based on earlier experience on MEMS based low-cost landslide monitoring system, with emphasis on image/video-based monitoring system. In line with requirements, the project aims to employ site-specific measurements of rainfall, moisture, and movement to create ensemble machine-learning (ML) models that generate accurate real-time landslide advisories for every 10-15 minutes at the monitored site. While one side of the project is to develop low-cost mobile / web- based Early Warning Systems (EWSs), using video cameras and IoT. The JRF is expected to contribute in conceptualize, develop and calibrate sensors to ascertain soil parameters in relation to soil stability, development of physical or working experimental models on soil slope stability, lab-field-site level experimentation, data analysis leading to geotechnical assessments. Innovation being a primary component, the project delivers development of technology-oriented patents apart from research papers and other communications.

Minimum Qualification:

B. Tech (Civil Engineering) + M. Tech (Geotechnical Engineering or related areas), Candidate must have qualified GATE at least once in academic career.

Desirables: Multi-disciplinary interest, Statistical Analysis, Machine learning coding, good command over English language and technical writing in English.

Joining date: As Soon As Possible

Principal Investigator(s): Dr K V Uday (PI), School of Engineering, IIT Mandi, Dr Varun Dutt, School of Computing and Electrical Engineering, IIT Mandi

Position: Project Associate-I/(JRF)

Salary: Max. up to INR 31,000/-

Duration: 06 months, extendable based on good performance.

Last Date of sending CV: 30th June, 2022 via online/offline on following google link
<https://forms.gle/gWf5yRQL8stmNL679>

Note: IIT Mandi reserves the right to fix higher criteria for shortlisting eligible candidates from those satisfying advertised qualifications and requirements of the project post. Exceptional candidates can also register for PhD further based on interview sessions.

Date and time of the interview along with the meeting link will be shared by email to the shortlisted candidates