

RECRUITMENT OF A PROJECT ASSOCIATE ON HPSCSTE PROJECT

Applications are invited from citizens of India for the following temporary position on a sponsored project from the Himachal Pradesh State Council for Science, Technology, and Environment (HPSCSTE) in the School of Computing and Electrical Engineering, IIT Mandi. Candidate found suitable for the project would be offered a project associate position for initially one year. This offer could be extended through the project duration, based on performance. If the candidate fulfills the institute criteria, then admission for M.S. / Ph.D. can be considered.

Project Title	Development and Evaluation of Landslide Risk Communication Solutions in Mandi District of Himachal Pradesh
Funding Agency	Himachal Pradesh State Council for Science, Technology & Environment (HPSCSTE)
Position and Salary	Project Associate (1 Post) Consolidated Salary Rs. 12,400 per month
Essential Qualification	B. Tech. or M.Sc. or MCA or equivalent degree in Computer Science and Engineering, Electrical Engineering, or Electronics Engineering
Desirable Qualifications	Hands-on experience in computer programming (preferably in web-based and mobile application development), and knowledge on topics in machine learning and data-mining. Also, the candidate is expected to be capable of working with sensors and programming them with Arduino and should have strong communication skills.

Interested candidates should send their short CV (no more than 2 pages; please include most relevant information suitable to project, including percent marks/CGPA in B. Tech. or M.Sc. or MCA or equivalent degree) via email to varun@iitmandi.ac.in before 21st November, 2016. Please write “Application for Project Associate” in the subject line of the email. The shortlisted candidates would be intimated by email for their date of interview. The tentative date for interview will be 28th November, 2016.

Project Description:

Current landslide research has focused on technological issues concerning landslide risk assessment. However, very few Landslide Risk Communication Systems

(LRCSs) have been developed that provide effective ways of communicating landslide risks to general public. In this project, for the first time in Himachal Pradesh, India, using state-of-the-art technologies (e.g., IoT, cloud storage, and web-based apps) prototype LRCSs will be developed and tested as effective risk-communication strategies. The project team will also develop educational material involving videos, pamphlets, simulations, and website, which provide information about causes and effects of landslides, their mitigation, and help in disaster management. Such methods of information dissemination will be innovative and unique to the Himachal state.

As part of the project, selected candidate will develop early warning systems, including websites, videos, pamphlets, and simulations using open-source components (Arduino and low-cost sensors), and software (PHP, MySQL, and Weebly). Once developed, the developed LRCSs will be provided for use to the district administration and local community in the Mandi district. Furthermore, the educative material and tools developed in the project will be available for free download from a website such that people in other parts of India and world could use this material and tools for landslide disaster management.