Indian Institute of Technology Jodhpur
Office of Research and Development

Advt. No.: IITJ/R&D(Advt.)/2022-23/57   25 Nov 2022

Project Recruitment

Applications are invited from the citizen of India for filling up the following temporary position in the Sponsored Project at this Institute. The position is purely temporary, initially for a period of 06 months, and same extendable but co-terminus with the duration of the project, on contractual basis with consolidated pay. The requisite qualification, experience and others details are given below:

1.	Project No.	S/MOA/MTM/AA/20210105
2.	Project Title	Centre of Excellence in "Ayurtech for Integrative precision Health and Medicine"
3.	Name of the Project Investigator	Prof. Mitali Mukerji, Prof.Ajay Agarwal
4.	Duration for initial appointment	06 Months
5.	Name of the Post	Junior Research Fellow
6.	Post	01
7.	Consolidate Pay	Rs. 31,000/- per month+ HRA (As per Institute Norms)
8.	Minimum Qualification and Experience	Eligibility: B. Tech/ME/M.Tech with specialization in Electrical Engineering/ Electronics Engineering/Computer Science/Data Science with first class or equivalent. GATE qualification in relevant discipline is mandatory. Desirable Qualification: The applicant should have: 1. Solid fundamentals in Image Processing and Machine Learning. 2. Experience in any one of the programming languages Python/MATLAB/C/C++. 3. Knowledge of web sockets and web frameworks.
09.	Brief description of Project	Multimodal phenotyping features of a person such as visual features, sound characteristics and gait patterns, play a key role in determining the Prakriti. For example, the visual features of eyes, skin face, muscles, teeth and nails and body propositions. Various parameters of these parts of the body such as the geometry, color etc. play a critical role in determining the prakriti. The sound characteristics for certain text also varies over the person. Manually identifying the prakriti from such a wide variety of

		multimodal cues could be a laborious task. We observe that these visual, sound and gait patterns cues can be captured by sensors such as cameras and microphones and processed by computers to mine meaningful information for identifying the type of Prakriti. Therefore, our goal would be to automatically identity Prakriti of a person using learning-based techniques using images, videos, voice signals and others physiological parameters collected from various IoT sensors.
10.	Job Description	The selected candidate is expected to 1. Build a system for capturing images of a person and speech recordings using a microphone automatically using programming libraries. 2. Design and implement a deep learning-based framework for extracting meaningful features and various attributes from the captured images. 3. Connect multiple sensors to collect data in a computer and process it. 4. Knowledge of blockchain to use it for storing information.
10.	Maximum Age	35 Years

The candidates possessing the requisite qualification and experience should apply through the ONLINE process up to **09 December 2022**. The candidates are advised to send a soft copy of the application with all relevant documents to *recruitment_rnd@iitj.ac.in* (***Please mention the advertisement number in the subject line of the email***). ***No need to send a hard copy***.

General Instructions to Applicant(s)

1.	The post(s) is purely temporary and contractual for a period of 06 months, and extension based on satisfactory performance, but co-terminus with the duration of the project
2.	Application which is incomplete, not in prescribed format, without photograph or unsigned will be summarily rejected.
3.	Certificate in support of experience should be in proper format i.e. it should be on the organizations letter head, bear the date of issue, specific period of work, name and designation of the issuing authority along with his signature.
4.	Institute reserves the right to: a. Fix, modify or revise the eligibility conditions, age and selection criteria as per its requirements, at any time. b. Fill up the post, not to fill up the post or cancel the advertisement in whole or partly without assigning any reason. c. Place a reasonable limit on the total number of candidates to be called for the Written Test and/or Skill Test, Interview.

5.	The Institute shall verify the antecedents or documents submitted by a candidate at the time of appointment or during the tenure of the service. In case, it is detected that the documents submitted by the candidates are fake or the candidate has a clandestine antecedents/background and has suppressed the said information, then his/her services shall be terminated.
6.	Higher initial pay may be given to exceptionally qualified/deserving candidate.
7.	No TA/DA shall be paid to the candidates for attending the interview.
8.	No correspondence will be entertained from candidates regarding interview and reasons for not being called for interview.
9.	Canvassing in any form will be a disqualification.
10.	No interim correspondence will be entertained.
11.	No need to send hard copy.

Officer In-charge
Research & Development