Advertisement for Junior Research Fellowships (JRF)

MPCST Sponsored Research Project

"AI-Urine Diagnostic Kit, Installed in Urinal Pots for run time health monitoring"

Applications are invited for **two Junior Research Fellowships (JRF)** under the MPCST-sponsored research project titled *"AI-Urine Diagnostic Kit, Installed in Urinal Pots for run time health monitoring"* (**Ref-1419/CST/R&D/(BioSci.)/2023**). The details are as follows:

Name of Available Posts and Positions

1. **Junior Research Fellowship (JRF - Product Development and Data Collection)** – *One position*

2. **Junior Research Fellowship (JRF - Software Development and AI/ML Expert)** – *One position*

Essential Qualifications

1. JRF - Product Development and Data Collection

- ME/MTech in Mechanical Engineering/Industrial Engineering/Product Design **OR** equivalent

    OR

- BE/BTech in Mechanical Engineering with GATE qualification **OR** minimum 2 year of relevant Experience

2. JRF - Software Development and AI/ML Expert

- ME/MTech in Computer Science/Information Technology/Data Science **OR** equivalent

    OR

- BE/BTech in Computer Science/IT with GATE qualification **OR** minimum 2 year of relevant Experience

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Desirables

For JRF - Product Development and Data Collection

- Experience in product design, CAD modelling, and prototyping
- Expertise in data collection and analysis related to product testing
- Familiarity with design tools like SolidWorks, CATIA, or equivalent software

For JRF - Software Development and AI/ML Expert

- Proficiency in programming languages like Python, R, or MATLAB
- Expertise in Artificial Intelligence (AI) and Machine Learning (ML) frameworks such as TensorFlow or PyTorch
- Experience in developing and deploying software systems for data analytics

Age Limit

Candidates should be born after **1st June 1995**.

Fellowship

- **For Both JRF Positions**: ₹20,000/- per month

General Terms and Conditions

1. The positions are purely temporary and subject to annual renewal based on satisfactory performance, for a maximum duration of two years or until project completion, whichever is earlier.

2. Original documents (age proof, certificates, degrees, mark sheets) must be presented at the time of the interview.

Selection Procedure

- **Interview**

How to Apply

Interested candidates should send a completely filled application form along with a detailed CV via email with the appropriate subject:

- *"JRF Application for MPCST Project – Product Development"*
- *"JRF Application for MPCST Project – Software Development"*

Email IDs: pjain@rgpv.ac.in or dr.artiartisharma@gmail.com

Last Date for Application: 15th February 2025

Shortlisted candidates will be informed through **E-mail**. No other form of communication will be entertained.

Interview Details

- Tentative Schedule: **20th February 2025 (online Mode)**
- Note: **No TA/DA** will be provided for attending the interview.

Dr. Prashant K. Jain
Project Investigator