October 19, 2022

Advertisement for Junior Research Fellow in SERB funded Core Research Grant Project

Applications are invited from high caliber, enthusiastic and research-oriented candidates for the position of **Junior Research Fellow (JRF)** in a research project entitled **"Force and vibration analysis in biomechanical preparation of root canals using endodontic file system: In-vitro study"** sponsored by the Science & Engineering Research Board, Department of Science and Technology, Government of India.

About the project: The project is focused on measuring force and vibration during root canal shaping. The project is aimed to determine the force and vibration correlation in RCT during biomechanical preparation of tooth for failure prediction.

Essential Qualification: First Class B.E./B.Tech./M.E./M.Tech in Mechanical Engineering/Mechanical and automation/Mechatronics/Electronics and/or Instrumentation/Data science. Candidate must have qualified GATE in Relevant area.

Desirables: The candidate should possess good knowledge of system dynamics, control, force and vibration signature analysis as well as machine learning technique. Additionally, candidate with good exposure to data analysis and signal processing are highly encouraged to apply.

Monthly Stipend: Consolidated Rs. 31,000 per month (Rs. 35,000 per month after conversion to SRF).

Duration: Initial appointment is for one year, which is extendable further based on performance up to the project duration. **Selected candidate may be considered for admission to Ph.D Programme as a regular full-time scholar at IIT Indore as per Institute norms.**

How to Apply:

1. Interested candidates are requested to submit **two pages write-up and a detailed CV** to Dr. Pavan Kumar Kankar (pkankar@iiti.ac.in), via email only with the subject line as *"Application for JRF position in CRG SERB project"*. The last date for submission of applications is November 20, 2022. Only shortlisted candidates will be intimated by email for the online interview.

2. In two pages write-up, the candidate may write about his/her past research work, any relevant research project done by the candidate, his/her idea for future research or views on the above project based on the literature search etc.

3. CV should include complete information such as academic grades/percentage starting from X[th] standard onwards with the details of year of passing, university or college, GATE score with year, discipline, marks, All India Rank, number of candidates appeared, contact details and a valid email id. **Kindly mention the work experience in detail of related field.** Incomplete applications will be rejected.

4. Only shortlisted candidates will be intimated by email for an online interview.

5. In case of any query related to above project, kindly email to Dr. Pavan Kumar Kankar.