



Advt. No.: IITJMU/R&C/2024/DTNRCM/A-85

Dated: 31-12-2024

**Advertisement for the Position of Research Officer**

Applications are invited from interested Indian candidates for the post of **Research Officer (RO)** to work on the project titled "**Digital Twin for Nuclear Reactor Control and Monitoring**".

No. of Positions	Position	Area of Specialization	Duration	Consolidated Salary per Month
1 (one)	Research Officer	AI ML, Computer Science and Engineering	Initially for one year with quarterly review. May be extended depending on the performance.	INR 70,000/-

**Essential Qualifications:**

**EQA:** PhD in ISE (Industrial and systems Engineering)/CSE (Computer Science and Engineering), Information Technology (IT) and related disciplines with minimum 70% marks (or 7.5/ 10.0 CGPA) for UG and PG degrees. 5% (five percentage) marks relaxation for ST/SC/PH candidates. Students awaiting results including PhD students who have submitted thesis may also apply.

**EQB:** Qualified in any of the following National eligibility test/examinations:

- ☐ GATE
- ☐ CSIR-UGC NET including lectureship (Assistant Professorship)
- ☐ National-level examination conducted by Central Govt. Departments and their agencies and Institutions such as DST, DBT, DAE, DOS, DRDO, MHRD, ICAR, ICMR, IIT, IISc, IISER, etc.

**EQC:** Candidates with industry experience of minimum 2 years after graduation.

**Desired Qualifications:**

**DQA:** Good working experience in the domain of Artificial Neural Network and Deep Learning

**DQB:** Good programming skill: The candidate should have good exposure to Python programming. Commanding knowledge in Linux and/or Windows operating systems

**DQC:** Familiarity in thermal-hydraulics and kinetics of nuclear reactors will be an added advantage

### **Job Description:**

The candidate has to develop a physics based digital twin model to simulate the thermal-hydraulic and kinetic behaviour of different nuclear reactors with the purpose to evaluate their performance at different steady and transient operating conditions, and also to develop self-regulating and automated control strategy and monitoring system. Writing research and conference articles, project proposals, and other documentations are also part of the job requirements.

**Upper age limit: 35 years** (Age relaxation is applicable for SC/ST/OBC/women and physically handicapped candidates as per government of India guidelines).

### **Application Process:**

Duly filled application form along with the requested details, scanned copies of certificates, other supporting documents, should be uploaded through the online portal (<https://apply.iitjammu.ac.in/#/home>) latest by **January 12, 2025**. The interview will be conducted for all shortlisted candidates.

### **Attention:**

1. The applicant will be responsible for the authenticity of the information, other documents, and photographs submitted.
2. Merely possessing the prescribed qualification does not ensure that the candidate would be called for an Interview. The candidates may be shortlisted based on merit and need for the project.
3. Shortlisted candidates will be informed by e-mail about the interview. So, the candidate must provide valid e-mail IDs, phone number information in their applications.
4. Shortlisted candidates must present themselves for the interview on the interview date with an updated CV and original and attested photocopies of mark sheets/certificates in support of their academic qualifications.
5. Only shortlisted candidates will be called for the interview which will be conducted in physical mode at IIT Jammu campus. No TA/DA will be paid for attending the interview.
6. Candidates who are already employed should produce a relieving certificate from their employers, if selected.

7. The last date for receiving the duly filled in application is **January 12, 2025** through the online portal mentioned above.
8. The date of interview will be informed to the shortlisted candidates through email.

**Address for Correspondence:**

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