



JIS University
Agartala, Kolkata

Advertisement

Position: Junior Research Fellow (JRF): 4 posts
Department: Computer Science and Engineering
Monthly Salary: Rs. 31,000/- + HRA (as applicable)

Applications are invited for temporary JRF positions under the following DST-sponsored projects:

- a) Efficient and Adaptive Mapping and Testing of Quantum Circuits in IBM QX and Nearest Neighbor Architectures – 2 posts
- b) Efficient Realization of Quantum Gate Operations Incorporating Parallelism and Fault Tolerance – 2 posts

The appointment will be for a maximum period of 3 years (1 year probation, extendable up to another 2 years upon satisfactory performance). The candidates are expected to enrol for the Ph.D. program and work in areas directly related to the projects. After completion of two years, an external assessment by the University where the candidate is enrolled for Ph.D is mandatory for upgradation from JRF to SRF. The fellow may be awarded SRF after successful assessment.

The main objectives of the projects are to develop various algorithms for mapping and optimization of functions to quantum computing architectures, with emphasis on testability, parallelism and fault tolerance. He/she will further be responsible for publishing the findings in reputed journals and conferences, and assist in conducting Conferences/Symposia/Workshops in areas related to quantum computing.

Applicants should hold a M.Tech./M.E. Degree in Computer Science and Engineering, Information Technology, VLSI Design or a related discipline with consistently good academic records, and should have qualified in CSIR-UGC NET including lectureship OR Graduate Aptitude Test in Engineering (GATE). The applicant should have very good coding skills in C/C++/Python, and good knowledge on data structures, algorithms, and digital circuit design. Some basic knowledge of quantum computing is desirable.

The application must be sent within 15th February, 2022 to the following email id: mainak@jisuniversity.ac.in, and must contain the following:

- 1. One page motivation letter (explaining suitability for the position)**
- 2. Curriculum Vitae (CV) with copies of all testimonials**
- 3. NET/GATE qualification certificate**
- 4. Name and contact details of two referees**