

Job Notification Form, IIT Delhi

Company Overview

Name: Fujitsu R&D India

Website: <https://www.fujitsu.com/in/>

Company Type: Information Technology

Description: To realize Fujitsu's purpose "to make the world more sustainable by building trust in society through innovation" enhancing the ability to sympathize with a global society and we will continue to make more flexible changes and create value. We offers a broad range of products, services and solutions, and approximately 130,000 employees supporting customers in 180 countries. Today, we respond to the modern digital world by co-creating with our partners and customers and driving new value from cutting-edge digital technologies that not only transform the way we work and live, but contribute to solving global social challenges.

Job Details

Designation: Researcher Quantum Laboratory

Type: Other (R&D)

Place of Posting: KARNATAKA/TELANGANA

Job Details: A researcher carries out his/her own research in the Quantum Computing (QC) field and creates new technologies according to Fujitsu's QC strategy. In India the focus will mainly be on QC Algorithms and Software. The researcher's duties also include filing patents and writing papers, which can get accepted at top conferences.

Following are Researcher's duties and responsibilities:

- Determine new areas of research in QC field.
Areas of research that have good potential of demonstrating quantum advantage are preferable.
- Identify research problems and propose new approaches to possibly solve the problems.
- Develop new algorithms, technologies and software based on the proposed approaches.
- Plan and perform experiments and surveys. This might require running experiments on Fujitsu's Quantum simulator and Quantum Computer.
- Collect, record and analyze data.
- Interpret data analysis results and draw inferences and conclusions.
- Present research results to research managers and project directors.
- Use research results to write reports, patents, papers and reviews and present findings in reputed international journals and conferences.
- Collaborate with Fujitsu research teams worldwide, industry stakeholders, and government agencies.

Developed technologies will be incorporated into Fujitsu's products and customers' systems in various fields such as finance, healthcare, social infrastructure and so on.

systems in various fields such as finance, healthcare, social infrastructure and so on. Developed algorithms and software will be used to strengthen Fujitsu's quantum computing offerings.

Some experience in using a quantum platform and running a quantum simulator or actual quantum processor is preferred. This will require accompanied programming knowledge to interface with such a platform.

- Some experiences at writing papers have been accepted by journals or conferences in QC or a relevant field.

- Experiences at leading or contributing to some research projects in QC or a relevant field.

- Extensive software engineering experience: Python, C/C++, or R, and its platforms like Qiskit, Amazon Braket, etc.

- Experience and knowledge of quantum physics and quantum simulations.

- Knowledge of Quantum algorithms like Grover's algorithm, QAOA, VQE etc.

Preferable majors are in Computer Science especially in Quantum Computing, Electrical & Computer Engineering, Mathematics, Physics

Researchers have ample opportunities to work at other offices located in Japan (Kawasaki city, Atsugi city), UK and USA.

There are two careers as a researcher. The first is the path of research management, such as project managers and project directors, who manage researchers at four global laboratories and lead research themes. The second is the path to becoming associate fellows and fellows in professional fields that focus on hands-on technical research and development.

Joining By: 1 October 2023

Salary Details

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| CTC: | 1,984,400 INR Per Annum |
| Gross: | 1,978,400 INR Per Annum |
| Base Salary: | 600,000 INR Per Annum |
| Joining Bonus: | 0 INR Per Annum |
| HRA: | 300,000 (min) -900,000 (max) INR Per Annum |
| Medical Allowance: | 0 (min) -0 (max) INR Per Annum |
| Other cash benefits part of gross: | 1,078,400 (min) -3,302,400 (max) INR Per Annum |
| RSUs: | 0 INR Per Annum |
| ESOPs: | 0 INR Per Annum |
| Performance/other bonuses: | 0 (min) -0 (max) INR Per Annum |
| Other cash benefits part of CTC: | 6,000 (min) -18,000 (max) INR Per Annum |

Selection Process

Resume Yes

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| Resume Shortlist: | Yes |
| Written Test: | Yes |
| Online Test: | No |
| Group Discussion: | No |
| Medical Test: | No |
| Personal Interview: | Yes |
| No. of Rounds: | 2 |
| No. of Offers: | 5 |
| Minimum CGPA: | 6 |

Eligibility

Recruiting PHDs: No

Eligible Departments: B.Tech and M.Tech in Mathematics & Computing, M.Tech in Computer Science & Engineering, M.Tech in Computer Technology, M.Sc in Mathematics, M.Sc in Physics, B.Tech in Mechanical Engineering and M.Tech in Computer Science & Engineering, M.S.(R) in Computer Science & Engineering, M.S.(R) in Information Technology, B.Tech in Textile Engineering and M.Tech in Computer Science & Engineering, B.Tech in Mechanical Engineering and M.Tech in Computer Science & Engineering, M.S.(R) in Electrical Engineering