INDIAN INSTITUTE OF INFORMATION TECHNOLOGY, KALYANI

An Institute of National Importance

(Autonomous Institution under MoE, Govt. of India &
Department of Information Technology & Electronics, Govt. of West Bengal)
C/o WEBEL IT Park, B-14, Opposite of Kalyani Water Treatment Plant
Near Buddha Park, Dist.-Nadia, P.O.-Kalyani, PIN - 741235, West Bengal
Email-office@iiitkalyani.ac.in, website-www.iiitkalyani.ac.in

Advt. No.: IIITK/SRIC-QCREG-JRF/2025/20   **Dated: 18.12.2025**

Applications are invited for **two (2) JRF positions** for the **DRDO-sponsored** project. The details are as follows:

Positions	Junior Research Fellow (JRF)
Number of Positions	02 (Two)
Title of The Project	Quantum Cryptanalysis and Resource Estimation using Grover Search for Symmetric Key Ciphers
Sanction Letter No. and Date	ERIP/ER/202506001/M/01/1870, Date: 12th August 2025
SRIC Code	IIITK/SRIC/DRDO-SAG/25-26/01/QCREG
Investigators	**Principal Investigator (PI):** Dr. SK Hafizul Islam Assistant Professor Department of Computer Science and Engineering, Indian Institute of Information Technology Kalyani West Bengal – 741235, India **Co-Principal Investigator (Co-PI):** Dr. Debasis Giri Associate Professor Department of Information Technology, Maulana Abul Kalam Azad University of Technology, Haringhata, Nadia, West Bengal – 741249, India
Duration of the Project	**02 (Two) Years**
Job Description	The selected candidate is expected to carry out research work related to the project and ensure its timely and successful completion, in consultation with the PI and Co-PI. The candidate is also expected to develop algorithms, implement them, and draft initial versions of reports, manuscripts, and patents resulting from the project, in consultation with the PI and Co-PI.
Essential Qualifications	For the JRF post, one of the following criteria be satisfied: (1). Master's degree in Engineering/Technology in a relevant area with a minimum CGPA of 6.5 (in a 10 grade point scale) or 60% of marks. (2). Bachelor's degree in Engineering/Technology in a relevant area with a minimum CGPA of 7.5 (in a 10 grade point scale) or 70 % of marks. The candidate should be GATE/NET qualified. (3). Master's degree in Science in a relevant area with a minimum CGPA of 6.5 (in a 10 grade point scale) or 60% of marks. The candidate should be GATE/NET qualified. All the aforementioned qualifications must be from a recognized Board, University, or Institute.
Desirable Qualifications	The candidate should have strong knowledge and practical experience in Cryptology, Quantum Gates and Circuits, Computational Complexity, Linear Algebra, Probability and Statistics, Boolean Algebra, and Qiskit (an open-source Python framework by IBM)
Age Limit	28 Years or below, as on the last date for receipt of application (Age relaxation for SC/ST/OBC/PH/Female candidates will be given as per Govt. of India, norms).

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Registration for Ph.D.	Selected candidate is expected to enroll for full-time Ph.D. program at IIIT Kalyani as per Institute norms.
Fellowship	@ Rs. 37,000/- pm + 30% HRA
Application Procedure	Interested candidates are requested to apply by filling out the application form prescribed in this advertisement and sending a scanned copy via email to **hafi786@iiitkalyani.ac.in** (with the subject line: **"Application for JRF-DRDO-QCREG-2025"**). Copies of all relevant certificates (e.g., age proof, degree certificates, and marksheets for X, XII, B.E./B.Tech, M.E./M.Tech) must be attached with the scanned application form as **a single PDF file**. The application form is available on the Institute website along with this advertisement. Candidates should also send the **hard copy** of the duly signed and completed application form along with all necessary documents (as sent by email) to the address below via **Speed Post / Courier / Registered Post** only. The envelope must be clearly marked as: **"Application for JRF Position against Advt. No. IIITK/SRIC-QCREG-JRF/2025/20, dated 18.12.2025"** **Address for hard copy submission:** Dr. SK Hafizul Islam Indian Institute of Information Technology Kalyani Webel IT Park Campus, Near Budha Park Kalyani – 741235, Nadia, West Bengal **Important Dates:** 1. Soft copy by email: 7th January 2026 2. Hard copy by post: 9th January 2026

Note:
(1) All original documents should be produced in original at the time of interview.
(2) Candidate must provide valid e-mail IDs/phone no. in their applications. The date of interview will be informed later, to the short-listed candidates through email. The interview will be in-person.
(3) Mere fulfilment of eligibility criteria does not ensure an applicant's right to join in the JRF position and Ph.D. programme at IIIT Kalyani. The decision of IIIT Kalyani will be final in this regard.
(4) The Institute reserves the right not to fill the position if no candidate is found suitable.
(5) This post is purely contractual basis and temporary basis.
(6) No TA/DA will be paid to attend the interview.

For further clarifications, contact hafi786@iiitkalyani.ac.in / debasis_giri@hotmail.com

Dr. Kaoushik K Mukherjee,
Registrar, IIIT Kalyani