



Indian Institute of Technology (ISM) Dhanbad
Office of the Dean (Research & Development)

Sanction No and Date: TTDF/6G/505 Date: 4 Dec 2024	IIT (ISM) Project No. SRDP 1171G	Date : 09 May 2025
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Project Staff (JRF) position under Department of Telecommunication Project

Applications are invited under the sponsored project. The details of the project are as under:

Position	Junior Research Fellow (JRF)
Number of Position (s)	02
Title of The Project	Development of lab-scale quantum fiber network, and design of plug-and-play photonic integrated modules for its transmitter & receiver towards secure 6G Communication
Principal Investigator	Dr. Mrinal Sen (Associate Professor)
Tenure of Project	3 Years
Job Description (in maximum of 100 words)	Development lab-scale Photonic QKD Network and design of photonic integrated modules for QKD transmitter and receiver.
Essential Qualification	1) B.E/BTech/M.E/MTech/M.Sc. or equivalent in streams like Electronics & Communication Engineering /Computer Science/Mathematics/Engineering Physics/Engineering Mathematics/Physics or equivalent with a good academic background. 2) The candidate should be qualified in GATE or CSIR/UGC NET (including lectureship or Assistant Professorship) or any other National level examination conducted by the Central Government Departments/Institutions.
Desirable Qualification	Basic knowledge in optical communication link, optoelectronic and photonic devices and photonic integrated circuit is desirable. Knowledge of photonic Quantum Bit generation and detection will be an added advantage. Some experience in programming languages like C/C++/Python/MATLAB/ANSYS-Lumerical is desirable.
Age and Relaxation (if any)	Not more than 35 years at the time of appointment, with relaxation to SC/ST/OBC candidates as per Government of India norms.
Fellowship	37000 INR per month with HRA as applicable
Last Date & Time	15 days from the publication of this advertisement Online application link: https://docs.google.com/forms/d/e/1FAIpQLSdBdkseH1SH7jiogXScbCf_ynpwA7fy5OootKawILwcIPUBJQ/viewform?usp=header
Shortlisted candidates will be informed of the date of the interview. Mere possession of the minimum qualification does not guarantee an invitation to the interview. Candidates will be shortlisted based on their merit and as per the requirement of the project. All candidates should make their own arrangements for their stay at Dhanbad, if required. No TA/DA will be paid to attend the interview.	