



Indian Institute of Technology Jodhpur

Office of Research and Development

Advt. No.: IITJ/R&D(Advt.)/2023-24/73

11 January 2024

Project Recruitment

Applications are invited from the citizen of India for filling up the following temporary position in the Sponsored Research Project at this Institute. The position is purely temporary, initially for a period of 06 Months, and same extendable but co-terminus with the duration of the project, on a contractual basis with consolidated pay. The requisite qualification, experience and other details are given below:

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| 1. | Project No. | F/DST/SWR/20230089 |
| 2. | Project Title | Development of Integrated Photonic Devices incorporating Silicon plus Photonics for Next Generation Optical Communication |
| 3. | Name of the Project Investigator | Dr. Swati Rajput Mentor of PI: Prof. Ajay Agarwal |
| 4. | Duration for initial appointment | 06 Months (will be extended further after the assessment) |
| 5. | Name of the Post | Junior Research Fellow |
| 6. | Post | 01 |
| 7. | Consolidate Pay | Rs. 37,000/- |
| 8. | Minimum Qualification and Experience | <u>Eligibility:</u> Postgraduate in Basic Science OR Graduate/ Postgraduate in Professional Course selected through a process described through any one of the following: (a). Scholar who are selected through GATE or National Eligibility Tests-CSIR-UGC NET including lectureship (Assistant Professor). (b). The selection process through National level examination conducted by Central Government Department and their Agencies and institutions such as DST, DBT, DOS, DRDO, MHRD, ICAR, ICMR, IIT, IISc., IISER etc. <u>Desirable Qualification:</u> Postgraduate/Undergraduate Degree in Electronics & Communications/Microelectronics/Optoelectronics/Nanotechnology/Optical Communication/ VLSI from a recognized institute (with first division as defined by the awarding Institute/ University) |
| 09. | Brief description of Project | The aim of the proposal is the development of advanced photonic devices incorporating material and device |

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| | | <p>engineering which can prove to be a building block for making micro/nano scale integrated photonic devices and circuits for various on-chip applications.</p> <p>The primary target would be to come up with a novel and versatile design of the guided wave platform for transceiver (i.e., optical modulation and photodetection). The design of advanced integrated photonic devices would be such that it will exhibit several useful characteristics for application in optical communication, interconnects, and bio-chemical sensing.</p> |
| 10. | Job Description | <ol style="list-style-type: none"> 1. Device Modelling for integrated photonic devices (Optical Modulator and Photodetector) based on silicon and compatible materials. 2. Design analysis and material processing towards efficient optical modulation and photodetection 3. Device Fabrication utilizing nanofabrication facilities. 4. Optoelectronic Characterization of the Device |
| 11. | Maximum Age | 30 Years |
| 12. | Age Bar | Age will be calculated on the closing date of the online submission of the application. Relaxation in age for the category candidates only would be admissible as per Central Government Rules. Also kindly enclose the Caste Certificate along with the application. |

The candidates possessing the requisite qualification and experience should apply through the **ONLINE process up to 25 January 2024.**

It is mandatory to send the soft copy of the application with all relevant documents to recruitment_rnd@iitj.ac.in (Please mention the advertisement number in the subject line of the email). **Without documents, your application will not be considered.** There is no need to send the hard copy.

General Instructions to Applicant(s)

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| 1. | The post(s) is purely temporary and contractual for a period of 06 Months and extension based on satisfactory performance, but co-terminus with the duration of the project |
| 2. | Application which is incomplete, not in prescribed format, without photograph or unsigned will be summarily rejected. |
| 3. | Certificate in support of experience should be in proper format i.e. it should be on the organizations letter head, bear the date of issue, specific period of work, name and designation of the issuing authority along with his signature. |
| 4. | <p>Institute reserves the right to:</p> <ol style="list-style-type: none"> a. Fix, modify or revise the eligibility conditions, age and selection criteria as per its requirements, at any time. b. Fill up the post, not to fill up the post or cancel the advertisement in whole or partly without assigning any reason. c. Place a reasonable limit on the total number of candidates to be called for the Written Test and/or |

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| | Skill Test, Interview. |
| 5. | The Institute shall verify the antecedents or documents submitted by a candidate at the time of appointment or during the tenure of the service. In case, it is detected that the documents submitted by the candidates are fake or the candidate has a clandestine antecedents/background and has suppressed the said information, then his/her services shall be terminated. |
| 6. | Higher initial pay may be given to exceptionally qualified/deserving candidate. |
| 7. | No TA/DA shall be paid to the candidates for attending the interview. |
| 8. | No correspondence will be entertained from candidates regarding interview and reasons for not being called for interview. |
| 9. | Canvassing in any form will be a disqualification. |
| 10. | No interim correspondence will be entertained. |
| 11. | No need to send hard copy. |

Officer In-charge
Research & Development