



Indian Institute of Technology Jodhpur

Office of Research and Development

Advt. No.: IITJ/R&D(Advt.)/2024-25/105

07 March 2025

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 01 Year, and same extendable but co-terminus with the duration of the project, on a contractual basis with consolidated pay. The requisite qualifications, experience and other details are given below:

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| 1. | Project No. | S/ICMR/NB/20240218 |
| 2. | Project Title | Design and development of a low-cost, optical fiber probe based optical coherence tomography system under resource-constrained setting |
| 3. | Name of the Project Investigator | Dr. Nitin Bhatia |
| 4. | Duration for initial appointment | 1 Year |
| 5. | Name of the Post | Project Research Scientist - I (non-medical) |
| 6. | Post | 01 |
| 7. | Consolidate Pay | Rs 56,000/- +HRA @20% |
| 8. | Minimum Qualification and Experience | <p><u>Eligibility:</u></p> <ol style="list-style-type: none">1. First Class Post Graduate Degree, including the integrated PG degree.2. Second Class Post Graduate Degree, including the integrated PG degrees with PhD.3. For Engineering / IT / CS - First Class Graduate Degree of Four years. <p><u>Desirable Qualification:</u></p> <p>The candidate should have a knowledge of basic principles in optics and photonics. Additionally, experimental work experience with Optical Fibers, Lasers, optics would be desirable. Also, a candidate showing good programming skills with knowledge of ML would be preferred.</p> <p>For Engineering Candidates: B.E./B.Tech. in EE / ECE / CSE (or equivalent) would be desirable.</p> |
| 09. | Job Description | Fabrication and characterization of the fiber probe, development of image rendering algorithm, project management, procurement, report preparation, dissemination of research output. |

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| 10. | Brief description of Project | The mitigation of trade-off between the depth of focus and image resolution in an optical imaging system demands the use of structured light beams for sampling. Such beams can be achieved by employing multimode fiber probes with bulky apparatus, resulting in high complexity, high cost, and bigger footprint of the setup. Also, multimode fibers show their own artifacts, degrading the image quality with external disturbances, resulting in additional complexity in the system. Thus, development of a fiber probe for generating the desired structured light beams is essential for a low-cost, low-footprint OCT setup. |
| 11. | Maximum Age | 35 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 21 March 2025.**

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 01 Year 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. | Institute reserves the right to: 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 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. |

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| 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