

No. IITM /SRIC/Project No: IITM/DBT/ADL/598

Date: 12/06/2026

**Advertisement No.: IITM/SRIC/Project No: IITM/DBT/ADL/598/2026**

Applications from Indian nationals are invited under the following project on temporary basis with consolidated salary. The initial appointment will be for a period of 12 months or the end of the project (whichever is earlier). The renewal of services for few months/a years or up to the duration of the project will be based on satisfactory performance.

The project aims to develop a quantum-enhanced bio-imaging platform based on squeezed-light super-resolution microscopy for low-photon imaging of live cells and biological tissues. The work involves quantum optics, photonics, microscopy, instrumentation, computational imaging, and machine-learning-assisted image reconstruction.

Title of the Project	Quantum-Enhanced Bio-Imaging: Squeezed-Light Super-Resolution Microscopy for Live Deep Tissue Analysis		
Funding Agency	Department of Biotechnology (DBT)		
Name(s) of the Project Investigator(s)	Dr. Amit Dattatraya Lad		
School/Center	Center for Quantum Science and Technologies (CQST)		
Duration of the Project	In months: 36 Months                      End date (dd/mm/yyyy): 16/04/2029		
Post (s)	Consolidated Pay-slab/ Salary	Qualifications	Age
Junior Research Fellow (JRF)	Rs. 37,000 per month	<b>Mandatory Qualification:</b> B. Tech. / B.E. / M.Sc. (or equivalent) in Physics / Engineering Physics / Applied Physics / Photonics / Photonics Engineering / Optics / Quantum Technology / Biomedical Engineering with 60% aggregate marks or 6.0 CGPA or equivalent marks  <b>AND</b> <b>Qualified in at least one of the following:</b> CSIR-UGC NET (JRF/LS) / GATE / DBT-	Maximum 30 years as on the last date of application

	<p>BET / INSPIRE Fellowship / Any other national-level fellowship (recognized by DST / DBT / UGC / CSIR).</p> <p style="text-align: center;"><b>AND</b></p> <p><b>Desirable Qualifications:</b></p> <p>Candidates having experience in one or more of the following areas will be preferred:</p> <p>Quantum optics and photonics / Lasers and nonlinear optics / Optical instrumentation and precision alignment / Interferometry and photodetection / Data acquisition and control systems; Scientific programming (Python, MATLAB, LabVIEW / Image processing and computational imaging / Machine learning and AI for scientific applications / Microscopy and bio-imaging / FPGA, embedded systems, or instrumentation electronics</p> <p><b>Additional Desirable (but not essential) Qualification:</b></p> <p>M. Tech. / M. E. (or equivalent) in Physics / Engineering Physics / Applied Physics / Photonics / Photonics Engineering / Optics / Quantum Technology / Biomedical Engineering with 60% aggregate marks or 6.0 CGPA or equivalent marks</p>	
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The candidates who are interested in applying for the above post should submit their details, GATE score card / CSIR UGC - NET (JRF/LS) certificate / DBT-BET fellowship certificate / INSPIRE fellowship certificate / any other national-level fellowship certificate, and CV online via the following link: Google form link: <https://forms.gle/4ZfeDoYX9cp8QmgU8>

The CV should include personal details, academic qualifications, research / project experience, publications, mobile number, and the names and email addresses of two referees.

IIT Mandi reserves the right to fix higher criteria for shortlisting of eligible candidates from those satisfying advertised qualifications and requirement of the project post.

The name of the shortlisted candidates will be either displayed on website or communicated



individually along with the offline/online interview details.

Selected candidates are expected to join the position within 10 days from the date of issuance of the selection/intimation letter. Failure to join within the stipulated period may result in cancellation of the offer and the position may be offered to the next candidate on the merit list.

The selection of the candidate will be provisional and subject to verification of original documents, certificates, mark sheets, and other relevant testimonials at the time of joining. In case of any discrepancy or submission of incorrect information, the candidature/appointment shall be liable to be cancelled.

The selected candidate may be considered for admission to the Ph.D. programme at IIT Mandi subject to satisfying the Institute eligibility criteria and procedures.

IIT Mandi reserves the right to fill or not fill the advertised position, and to modify, cancel, or terminate the recruitment process at any stage without assigning any reason.

Relaxation of marks may be granted to the SC/ST Candidates as per GoI norms. In case of selection of a retired/superannuated government employee, his/her salary will be fixed as per prevailing GoI rules/norms. The last date for submitting completed applications via the form link above is 05:00 PM on **30<sup>th</sup> June 2026**. In case any clarification is required on eligibility regarding the above post, the candidate may contact at email id: [amitdlad@iitmandi.ac.in](mailto:amitdlad@iitmandi.ac.in)