

Date: 29-09-2026

Subject: Advertisement for the post of Project Research Scientist-I (Non-Medical) (No. of Posts: Two)

Applications are invited from Indian nationals with excellent academic and research backgrounds for the post of Project Research Scientist-I (Non-Medical) in an Indian Council of Medical Research (ICMR)-funded project. Details are given below:

Name of the Post	Project Research Scientist-I (Non-Medical)
No. of Post	Two
Project Title	AI-assisted 3D Vein Viewer: Portable NIR stereovision device using AI-based depth mapping to guide clinicians in safe, accurate IV access and jugular cannulation for challenging patients
Job description	- Developing AI/ML and computer-vision tools for vein enhancement, segmentation, depth estimation and 3D reconstruction. - Integrating NIR cameras, LEDs, Raspberry Pi/embedded hardware, display and real-time image-processing software. - Performing camera calibration, phantom/lab testing, clinical-data analysis and prototype refinement. - Preparing project documentation, reports, presentations, manuscripts, regulatory paperwork and collaborator communications. - Coordinating with clinicians, engineers, industry partners and project staff. - Carrying out any other project-related work assigned by the PI.
Period of Appointment	The appointment will be on a temporary basis for 11 months, starting as soon as possible and extendable for another 3 years based on performance and availability of funding.
Remuneration (/month)	Rs. 56000 + 30% HRA (HRA will be provided only if not taking hostel facility)
Essential Qualifications	First Class Post Graduate Degree (including the integrated PG degrees) in Mechanical Engineering or Electrical Engineering and related areas with 2 years of research experience after M.Tech
Essential experience	- Minimum 2 years of research/development experience after M.Tech in instrumentation, device design, embedded systems, medical-device development, mechatronics, optics, electronics, or related areas. - Hands-on experience in prototype design, fabrication, testing and validation of laboratory, optical, biomedical, or electronic devices. - Experience with hardware integration, including cameras, LEDs, sensors, Raspberry Pi/embedded systems, display units, power modules, and mechanical enclosures. - Experience in CAD design, 3D printing, thermal management, device assembly, calibration and performance testing. - Ability to carry out data analysis, technical documentation, report preparation, presentations and manuscript writing. - Good communication skills and ability to coordinate with clinicians, engineers, collaborators, industry partners and project staff.

Age Limit	Not more than 30 years as on the last day of application;
Selection Procedure	Candidates will be shortlisted for the interview based on their academic records and relevant work experience/publications. Only shortlisted candidates will be notified via email about the online interview. Please note that merely meeting the eligibility criteria does not guarantee a call for an interview. The PI reserves the right to leave the position vacant if no suitable candidate is found.

Note:

1. Interested candidates meeting the above criteria should fill in the Google form using the following link (<https://forms.gle/uEUxzmMwVMD1jtgh8>) by **15 October 2026** (incomplete applications will not be evaluated).
2. For any query in this regard, candidates may write to Prof. Vandana Sharma (**Email: vsharma@phy.iith.ac.in**), Department of Physics.