



विश्वेश्वरय्या राष्ट्रीय प्रौद्योगिकी संस्थान, नागपुर, भारत

Visvesvaraya National Institute of Technology, Nagpur, India

AN INSTITUTE OF NATIONAL IMPORTANCE

Advertisement for the Position of Project Associate -I

Date: 14.11.2025

Applications are invited from eligible candidates for the position of Project Associate -I to work on a DRDO-sponsored research project in the **Department of Electronics and Communication Engineering**.

Title of the project	Sensor Antenna Transmitter System for Material Properties Retrieval in Wireless Sensor Node		
Scope of Project	The project focuses on the design and development of a low-cost, portable, and non-invasive antenna-based sensor system for detecting the electromagnetic properties (permittivity and permeability) of materials. Operating in the S-band, the system integrates the sensor with a wireless transmitter to enable real-time retrieval and transmission of material property data. By leveraging RF communication, the developed system ensures seamless connectivity with existing wireless networks. Its non-intrusive sensing capability allows for continuous, in-situ monitoring of material health, offering significant potential for defense and military applications, including structural integrity assessment and advanced surveillance systems.		
Investigators	Dr. Arvind Kumar (<i>PI</i>) & Prof. KM Bhurchandi (<i>Co-PI</i>)		
Position, Posts & Tenure	Project Associate -I No. of Posts-01 3 Years		
Duration	The position is purely temporary in nature. The initial appointment will be for a period of one year, which may be extended up to three years based on the candidate's satisfactory performance and project requirements.		
Essential qualification	i) B.Tech. in Electronics and Communication Engineering, Electrical and Electronics Engineering, Instrumentation Engineering, Applied Electronics, Instrumentation, or other equivalent-related Engineering streams. OR ii) Master's degree in RF and Antennas, Physics, Electronics, Communication Systems.		
Desirables	GATE / CSIR-UGC NET qualified candidates will be given preference. Knowledge of EM simulation tools eg. CST and fundamental knowledge of RF/Microwave Antennas etc.		
Ph.D. Opportunity	The selected Project Associate -I may be eligible to enroll in the Ph.D. program in ECE, subject to institute norms and eligibility criteria at the time of admission.		
Monthly Emoluments (₹)	Category	Fellowship per month	Duration
	<i>With GATE/NET</i>	₹37,000 + 20% HRA	First two years
		₹42,000 + 20% HRA	Third year
	<i>Without GATE/NET*</i>	₹30,000 + 20% HRA	First two years
		₹33,000 + 20% HRA	Third year



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	*As per norms of DST	
Mode of application	Interested candidates must apply in the prescribed format available at: https://docs.google.com/document/d/1nIPYiQh72fwMnDLbSZ9Vf4ETCwSo_bbR/edit?usp=sharing&ouid=117108589356201083193&rtpof=true&sd=true and Google form at: https://docs.google.com/forms/d/e/1FAIpQLSeMsMUtowKljIBQ0Ux406e8mIp4u72GxWJr3LBtagx5h2h3KA/viewform?usp=header within 15 days from the date of publication of this advertisement on the institute website. The duly filled application form, along with all necessary enclosures (CV, mark sheets, degree certificates, GATE/NET scorecard, and other relevant documents), should be compiled into a single PDF file and emailed to arvindkumar@ece.vnit.ac.in with the subject line: “Application for Project Associate -I Position in DRDO Project.”	
Contact Persons	Dr. Arvind Kumar (PI) and Prof. K. M. Bhurchandi (Co-PI) Contact No. +91 8903228621 / +91 8707379049 Email: arvindkumar@ece.vnit.ac.in (or) arvindkr.nitt@gmail.com	
Important notes	Only shortlisted candidates will be informed via email and will be required to appear for a written test and/or interview on the date communicated through email. No TA/DA will be provided for attending the interview. The decision of the Director, VNIT Nagpur, shall be final and binding in all respects.	
Dr. Arvind Kumar (PI) & Prof. KM Bhurchandi (Co-PI)	Head (ECE)	Dean (R&C)