



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**.

<b>Title of the project</b>	<b>Sensor Antenna Transmitter System for Material Properties Retrieval in Wireless Sensor Node</b>		
<b>Scope of Project</b>	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.		
<b>Investigators</b>	Dr. Arvind Kumar ( <i>PI</i> ) & Prof. KM Bhurchandi ( <i>Co-PI</i> )		
<b>Position, Posts &amp; Tenure</b>	Project Associate -I   No. of Posts-01   3 Years		
<b>Duration</b>	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.		
<b>Essential qualification</b>	i) B.Tech. in Electronics and Communication Engineering, Electrical and Electronics Engineering, Instrumentation Engineering, Applied Electronics, Instrumentation, or other equivalent-related Engineering streams.  <b>OR</b>  ii) Master's degree in RF and Antennas, Physics, Electronics, Communication Systems.		
<b>Desirables</b>	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.		
<b>Ph.D. Opportunity</b>	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.		
<b>Monthly Emoluments</b>  (₹)	<b>Category</b>	<b>Fellowship per month</b>	<b>Duration</b>
	<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	
<b>Mode of application</b>	<p>Interested candidates must apply in the <b>prescribed format</b> available at: <a href="https://docs.google.com/document/d/1nIPYiQh72fwMnDLbSZ9Vf4ETCwSo_bbR/edit?usp=sharing&amp;ouid=117108589356201083193&amp;rtpof=true&amp;sd=true">https://docs.google.com/document/d/1nIPYiQh72fwMnDLbSZ9Vf4ETCwSo_bbR/edit?usp=sharing&amp;ouid=117108589356201083193&amp;rtpof=true&amp;sd=true</a></p> <p>and Google form at:</p> <p><a href="https://docs.google.com/forms/d/e/1FAIpQLSeMsMUtowKljIBQ0Ux406e8mIp4u72GxWJr3LBtagx5h2h3KA/viewform?usp=header">https://docs.google.com/forms/d/e/1FAIpQLSeMsMUtowKljIBQ0Ux406e8mIp4u72GxWJr3LBtagx5h2h3KA/viewform?usp=header</a></p> <p>within <b>15 days</b> from the date of publication of this advertisement on the institute website. The <b>duly filled application form</b>, along with all necessary enclosures (<b>CV, mark sheets, degree certificates, GATE/NET scorecard, and other relevant documents</b>), should be <b>compiled into a single PDF file</b> and emailed to <a href="mailto:arvindkumar@ece.vnit.ac.in">arvindkumar@ece.vnit.ac.in</a> with the subject line:</p> <p><b>“Application for Project Associate -I Position in DRDO Project.”</b></p>	
<b>Contact Persons</b>	<p>Dr. Arvind Kumar (PI) and Prof. K. M. Bhurchandi (Co-PI)</p> <p>Contact No. +91 8903228621 / +91 8707379049</p> <p>Email: <a href="mailto:arvindkumar@ece.vnit.ac.in">arvindkumar@ece.vnit.ac.in</a> (or) <a href="mailto:arvindkr.nitt@gmail.com">arvindkr.nitt@gmail.com</a></p>	
<b>Important notes</b>	<p>Only <b>shortlisted candidates</b> will be informed via email and will be required to appear for a <b>written test and/or interview</b> on the date communicated through email. <b>No TA/DA</b> will be provided for attending the interview. The <b>decision of the Director, VNIT Nagpur</b>, shall be <b>final and binding</b> in all respects.</p>	
<b>Dr. Arvind Kumar (PI) &amp; Prof. KM Bhurchandi (Co-PI)</b>	<b>Head (ECE)</b>	<b>Dean (R&amp;C)</b>