



**VISVESVARAYA NATIONAL INSTITUTE OF TECHNOLOGY**  
**DEPARTMENT OF MATHEMATICS**  
South Ambazari Road-440010, Maharashtra

**Requirement of JRF in the Department of Mathematics**

Applications are invited from motivated and eligible candidates for the post of Junior Research fellow (JRF) to work on National Board for Higher Mathematics (NBHM) funded research project.

<b>Title of the project</b>	Insights into nonlocal symmetries and exact solution for nonlinear partial differential equations describing physical models
<b>Scope of Project</b>	<p>This project involves a theoretical study of Lie symmetries and their application to nonlinear partial differential equations. It focuses on identifying symmetries to simplify complex equations, enabling the derivation of exact or similarity solutions. The work bridges mathematical theory with practical applications in physics and related scientific fields.</p> <p>For more information, candidates can visit the webpage of Dr. Purnima Satapathy <a href="https://scholar.google.com/citations?hl=en&amp;user=kLWEfecAAAAJ">https://scholar.google.com/citations?hl=en&amp;user=kLWEfecAAAAJ</a> or <a href="https://vnit.ac.in/basic_science/maths/dr-purnima-satapathy/">https://vnit.ac.in/basic_science/maths/dr-purnima-satapathy/</a>) or write email at <a href="mailto:purnima@math.vnit.ac.in">purnima@math.vnit.ac.in</a></p>
<b>Position</b>	Junior Research Fellow (JRF)
<b>No. of posts</b>	01
<b>Duration</b>	The post is purely temporary in nature. Initial appointment is for the period of one year, which can be extended up to 03 years solely based on satisfactory performance.
<b>Essential qualification</b>	M.Sc. in Mathematics from recognized universities/institutes with a minimum of 60% or equivalent CGPA and with valid <u>GATE / CSIR-UGC JRF / NET/PhD only category</u> qualification.
<b>Desired qualification</b>	Overall good academic record, sound analytical skills and knowledge of basic Mathematics.
<b>Ph.D. Opportunity</b>	The selected JRF candidate will have the opportunity to register for a regular PhD program provided the candidate satisfies the eligibility criterion for the PhD program in Department of Mathematics ( <a href="https://vnit.ac.in/section/academics/admission/">https://vnit.ac.in/section/academics/admission/</a> ).
<b>Fellowship</b>	Rs. 37,000/- per month (consolidated) for 1 <sup>st</sup> and 2 <sup>nd</sup> year. ✓ Rs. 42,000/- per month (consolidated) for 3 <sup>rd</sup> year. ✓ Along with contingency of 10,000/- each year.
<b>Mode of application</b>	Interested candidates are requested to apply in the prescribed format (available online on institute website <a href="http://www.vnit.ac.in">www.vnit.ac.in</a> ) by <b>January 31, 2026</b> . The duly filled application form along with all the enclosures (detailed curriculum vitae, degree certificates, GATE/NET scorecard and other relevant documents) <b>must be sent as a single pdf file</b> to the principal investigator at following email address: <a href="mailto:purnima@math.vnit.ac.in">purnima@math.vnit.ac.in</a> . Please mention “ <b>Application for the Post of JRF in the Mathematics Department</b> ” in the subject line of email. Provide complete information with regard to all essential eligibility conditions, incomplete applications will be rejected.
<b>Contact</b>	<b>Dr. Purnima Satapathy</b> Department of Mathematics, Visvesvaraya National Institute of Technology, South Ambazari Road, Nagpur-440010. Email: <a href="mailto:purnima@math.vnit.ac.in">purnima@math.vnit.ac.in</a> , Phone: 0712-280-1910 (Office)
<b>Important notes</b>	Only short-listed candidates will be intimated by email and will have to appear for a written test and/or interview on the date as communicated through email. Online interview may conduct on request basis with genuine reason, however physical appearance is more preferable. <b>No TA/DA will be paid for appearing in the interview.</b> The decision of the <b>Director, VNIT Nagpur</b> will be final in all respect.

  
Dr. Purnima Satapathy (PI)

  
Head (Dept. of Mathematics)

  
Dean (R&C)

  
Associate Dean