



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

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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.

Title of the project	Insights into nonlocal symmetries and exact solution for nonlinear partial differential equations describing physical models
Scope of Project	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. 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>
Position	Junior Research Fellow (JRF)
No. of posts	01
Duration	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.
Essential qualification	M.Sc. in Mathematics from recognized universities/institutes with a minimum of first class and with GATE / CSIR-UGC JRF / NET-LS qualification.
Desired qualification	Overall good academic record, sound analytical skills and knowledge of basic Mathematics.
Ph.D. Opportunity	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> ).
Fellowship	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.
Mode of application	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>October 07, 2025</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 "Application for the Post of JRF in the Mathematics Department" in the subject line of email. Provide complete information with regard to all essential eligibility conditions, incomplete applications will be rejected.
Contact	<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
Important notes	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 be conducted 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 Director, VNIT Nagpur will be final in all respects.

Dr. Purnima Satapathy (PI)

Head (Dept. of Mathematics)

Dean (R&C)