ABV Indian Institute of Information Technology and Management Gwalior
(An Institution of National Importance under MoE, Government of India)
Morena Rd, IIITM Campus, Gwalior, Madhya Pradesh 474015

Ref: ANRF/IRG/2024/000821/ENS **Date: 9th July 2025**

Advertisement for the JRF Position in the ANRF Sponsored Project (ANRF/IRG/2024/000821/ENS)

Applications are invited from eligible candidates as a Junior Research Fellow (JRF) to work on the following project sponsored by ANRF **ANRF/IRG/2024/000821/ENS** under the supervision of Dr. Alok Kumar Kamal, **ABV-IIITM, Gwalior (An Autonomous Institute under MHRD, Govt. of India)**. The position is initially for **one year**, which may be extended for up to two additional years based on performance or till the completion of the project, whichever is earlier. The candidates can be enrolled in the Ph.D. program as per the institute norms. The details related to the project are as follows:

Project Title	**High-Speed Stochastic Simulation Framework for Nanostructured Materials in Advanced Biomedical Applications**
About the Project	This project aims to develop a high-speed stochastic computational framework for simulating carrier transport in nanostructured thermoelectric materials. By integrating hybrid Monte Carlo and Boltzmann Transport models, it will address limitations of current methods in modelling non-crystalline materials. The framework will be optimized for biomedical applications, particularly in fertility monitoring using temperature-sensitive thermoelectric sensors. The project will also produce open-source tools, validated simulations, and potential patents, enabling scalable and accurate material design for advanced biomedical devices.
Principal Investigator (PI)	Dr. Alok Kumar Kamal
Fellowship	Rs. 37000 + HRA (18%)
Essential Qualifications	**Postgraduate Degree (M.E./M.Tech./M.S.)** in Electronics and Communication Engineering / Computer Science / Information Technology / Electrical Engineering or related fields **OR** **Graduate Degree (B.E./B.Tech.)** in the above disciplines **with a valid GATE score** **OR** **Postgraduate Degree in Basic Sciences** (such as Physics, Electronics, Computer Science) **with a valid NET/GATE qualification**
Desirable Qualification	• Must have a mathematical background. • Good knowledge of the fundamentals in semiconductor device physics and nanomaterials. • Proficiency in MATLAB and TCAD
Application Deadline	**25th July 2025**
Date of Interview	Only shortlisted candidates will be informed by e-mail about the interview date. No TA/DA will be provided for attending the interview.

Application Procedure:

- Candidates are requested to send their detailed CV, including their academic details with percentage/CGPA, research works/projects, and work experience (if any) along with application form (attached as Annexure I) to **kamal@iiitm.ac.in** with the subject line as "**Application for the JRF position in the ANRF sponsored project (ANRF/IRG/2024/000821/ENS).**"
- Only shortlisted candidates will be informed through email for an interview. The interview will be conducted in person in offline mode at ABV-IIITM Gwalior.

Notes:

1. The duration of the position extends for a maximum of three years. If the candidate performs unsatisfactory, the position can be terminated with 1-month notice.
2. Selected candidates can be enrolled in the Ph.D. program as per the institute's norms.

Dr. Alok Kumar Kamal (PI)
Assistant Professor
ABV-Indian Institute of Information Technology and Management (ABV-IIITM), Gwalior,
An autonomous Institute under MHRD, Govt. of India)
NH-10, Morena Link Road, Gwalior-474015 (MP) India.
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Annexure – I

ABV Indian Institute of Information Technology and Management Gwalior
(An Institution of National Importance under MoE, Government of India)
Morena Rd, IIITM Campus, Gwalior, Madhya Pradesh 474015

Application for the Post of Junior Research Fellow (JRF) in ANRF Sponsored Project Titled "High-Speed Stochastic Simulation Framework for Nanostructured Materials in Advanced Biomedical Applications"
(Project No.: ANRF/IRG/2024/000821/ENS)

Applicant's Details**:**

1.	Name		PHOTO
2.	Father's Name		
3.	Mother's Name		
4.	Male/Female		
5.	Address	Correspondence:	Permanent:
6.	Contact Details	Email ID:	Phone Number:
7.	Age:	Date of Birth:	Age as on the closing date of Advt:
8.	Nationality:	Caste: GEN/SC/ST/OBC (Attach supporting documents)	
9.	Languages Proficiency	Mother tongue:	Other languages:

10. Educational Qualifications:
(**Supporting documents should be submitted along with the application as a single PDF file**)

Degree/Certificate	**Institute/University/Board/College**	**Year**	**Subjects**	**Percentage/ CGPA**	**Class**
10th					
(10+2)					
Graduation					
Post Graduation					

GATE/NET (as applicable)	Details of GATE	Year:	Rank:
	Details of CSIR-UGC-NET	Year:	Score:

Declaration: I hereby declare that the entries made in this application form are correct to the best of my knowledge and belief. I would also submit my latest CV along with this application.

Place:

Date: (Signature of the applicant)