



अनुसंधान और विकास अनुभाग
भारतीय प्रौद्योगिकी संस्थान इंदौर
खंडवा रोड, सिमरोल, इंदौर - 453552, भारत
Research & Development Section
Indian Institute of Technology Indore
Khandwa Road, Simrol, Indore 453552, India

IIT Indore

Draft Advertisement for Recruitment of JRF/ SRF/ RA

Advt. No: <u>IITI/CHE/PROJ/ADV/2026/03</u>	Date: 22.06.2026
Applications are invited from interested and motivated candidates for the post of JRF in a research project as per the following details.	
Position	Junior Research Fellow (JRF)
Funding Agency Name	Anusandhan National Research Foundation (ANRF)
Number of Vacancies	One (01)
Project Title	Active Turbulence in Mechanically Heterogeneous Epithelia
Department	Chemical Engineering
Duration of the Appointment	Initial appointment for 12 months. It can be extended further if the candidate's performance is found satisfactory. (The selected candidate will be encouraged to register for the PhD program at IIT Indore as per institute norms). If selected for PhD program, the fellowship will be extended for PhD duration as per institute norms.
Job Description	Epithelial tissues are densely packed active cell layers whose flows are shaped by local cellular events such as neighbour exchanges, cell division, ingression, and changes in cell shape. The selected JRF will contribute to understanding the physics of active turbulence in mechanically heterogeneous epithelia. The JRF will use computational tools such as vertex-model simulations, active-matter modelling, and Lagrangian flow diagnostics to elucidate how stresses generated by these cellular events, together with mechanical heterogeneity and dissipation, drive tissue-scale turbulent flows and coherent structures.
Essential Qualification	Minimum first class* bachelor's degree in Chemical Engineering, Mechanical Engineering, Physics, Bioengineering, Biomedical Engineering, or other closely related disciplines with strong background in soft matter physics, fluid mechanics, or biophysics. *First Class as defined by IIT Indore (https://academic.iiti.ac.in/phdadvt.php)
Desirable Qualification	The following qualifications are desirable but not mandatory: <ul style="list-style-type: none">• Good programming experience with modern C++• Experience with molecular and/or continuum simulations• Familiarity with Ubuntu and Python
Age Limit	35 years
Fellowship Details	₹ 37,000 per month + HRA (HRA will be provided if institute accommodation is not being provided/availed.)
Date of Interview	The selected candidates will be called for the online interview on July 13, 2026
Last Date of Applications	July 10, 2026

Interested candidates are requested to submit a detailed softcopy of their CV with all relevant Essential Qualification Degree Certificates, Marks Sheets, GATE qualifying certificates, Date of Birth Proof Certificate in a

single PDF file to chaithanyakvs@iiti.ac.in. (The selected candidate will be encouraged to register for the PhD program at IIT Indore as per the institute norms.) If selected for the PhD program, a fellowship will be extended for PhD duration as per institute norms

No TA/DA will be paid for appearing in the interview.

Only shortlisted candidates will be called for an interview. Selected candidates will be informed by email.