

Department of Metallurgical Engineering and Materials Science Indian Institute of Technology Indore

Advertisement for Junior Research Fellow (JRF)

Applications are invited from motivated and eligible candidates for a junior research fellow (JRF) position in the research project supported by the Indian Knowledge System (IKS) division, Ministry of Education, Govt. of India. The details of the project are given below:

Name of Post	Junior Research Fellow
No. of post	One (01)
Tenure of Project	Maximum 2 years or till the end of the project, whichever is earlier
	(If selected candidate will join Ph.D. program, then fellowship will
	be continued (after the completion of the project) as per academic
	guidelines of IIT Indore).
Principal Investigator	Dr. Vinod Kumar,
(PI)	Associate Professor
	MEMS, IIT Indore
Job Description	The candidate is expected to synthesize high quality steel and
-	predict the formation of phases by using CALPHAD software. It is
	required to investigate the microstructure and phases developed in
	advanced steels utilizing XRD, OM, SEM and TEM. Candidate
	needs to investigate the mechanical behavior including wear study,
	and corrosion behavior of developed materials. Furthermore, it is
	required to perform casting and phase analysis of steel used to
	manufacture URUMI swords and perform comparative study.
Essential Qualification	M. Tech. / ME in Metallurgical and Materials Engineering/
	Mechanical Engineering/ Materials Engineering/ Production
	Engineering/ Manufacturing Engineering or equivalent (with first
	division as defined by the awarding Institute / University). The
	candidate should be GATE qualified in any branch of
	engineering/science. The selected candidate will be encouraged
	to join the Ph.D. program at IIT Indore.
	Candidates who are going to complete his/her M. Tech. in the
	current academic year are also encouraged to apply.
Desirable Qualification	Knowledge and experience in casting process and material
	characterization.
Age Limit	Preferably below 32 Years
Salary/Fellowship	Rs. 37,000/- pm (Consolidated)
Last Date & Time	Interested candidates are requested to send their detailed CV,
	statement of purpose (SOP), and copies of educational
	qualifications, and other relevant documents to the Principal
	Investigator by Email (vkt@iiti.ac.in) on or before August 17, 2025,
Only, chartlisted, sou didate	5:00 PM.
Only shortlisted candidates will be informed about the date of the interview by email. The	
appointment is purely temporary and may co-terminus with the project. Mere possession of	
minimum qualification does not guarantee an invitation to the interview. Candidates will be	
shortlisted based on their merit and as per the requirement of the IKS project.	
Google meet link will be shared only with the shortlisted candidates before the date of the interview.	

Tentative Interview Date: August 23, 2025 (11:00 AM onward)