

**Birla Institute of Technology, Mesra, Ranchi-835215**  
**DEPARTMENT OF MECHANICAL ENGINEERING**  
**Advertisement for the post of Junior Research Fellow (JRF)/Project Associate-1**

Applications are invited from Indian nationals for the position for the Post of **Junior Research Fellow/Project Associate-1** in a **SERB** funded research project with following details:

Name of the project	Nanofluids based solar heat harvesting through modified hybrid PV-TEG panel for sustained solar output and extended life span
Principal Investigator (PI) Along with e-mail id	Dr. Sushil Kumar Dhiman Assistant Professor, Department of Mechanical Engineering Birla Institute of Technology, Mesra, Ranchi-835215 (India) Email id: skdhiman@bitmesra.ac.in Mobile 9430734803
Details of Co-P.I.	Dr. Sanat Kumar Mukherjee Assistant Professor, Department of Physics, BIT Mesra, Ranchi Dr. Deepak Kumar Assistant Professor, Department of EEE, BIT Mesra, Ranchi Dr. Anupam Roy Assistant Professor, Department of Chemical Engg., BIT Mesra, Ranchi
Duration of the project	3 years
Number of Positions	01
Essential qualifications:	For JRF: M.Tech./M.E. Degree in Mechanical/Thermal Engineering/Heat Power/Energy Engineering/Materials or equivalent with a B. Tech. in Mechanical Engineering from a recognized University/Institute in India with minimum 60% marks or 6.0 CGPA on a ten point scale and qualified CSIR-UGC NET including Lectureship or GATE or qualified through National Examination of Government Departments and Agencies. For other than JRF (Project Associate-1): M.Tech./M.E. Degree in Mechanical/Thermal Engineering/Heat Power/Energy Engineering/ Materials or equivalent with a B. Tech. in Mechanical Engineering from a recognized University/Institute in India with minimum 60% marks or 6.0 CGPA on a ten point scale
Desirable	Preference will be given to candidate having qualified GATE. Candidate with past research experience in the relevant field and desire to pursue Ph.D. will be given preference. Following additional knowledge will be given weightage: Synthesis of nano-fluids, solar PV- module and its power output, knowledge of CFD/COMSOL/ MATLAB, etc.
Designation	JRF For other than JRF (Project Associate-1)
Fellowship	For JRF: Rs 37000+16%HRA per month for first two years and Rs 42000 + 16% HRA per month for the third year. For other than JRF (Project Associate-1): Rs 25000+16%HRA per month for first two years and Rs 28000 + 16% HRA per month for the third year.
Interview Date	<b>To be intimated to the shortlisted candidates through email.</b>

- **How to apply:** Interested candidates are requested to send a covering letter along with their CV with passport size photograph on it and scanned copies (**converted to single pdf**) of qualifications and experience to skdhiman@bitmesra.ac.in and sanat.mukherjee@bitmesra.ac.in with a copy to dr.aac@bitmesra.ac.in on or before **22 April, 2024**. CV must include the mail ID and working phone number.
- The candidates would be shortlisted for **online/offline interview** based upon their academic and professional background and will be intimated through email stating the date and time for interview.

• **Terms and Conditions:**

- The decision of the selection committee will be final.
- The appointment of the candidate will be governed by the terms and conditions of the Institute/ funding agency particularly applicable to the said project as and when required.
- The post is purely temporary in nature and subjected to availability of funds.
- No TA/DA will be paid for attending the interview.

  
Registrar 04/04/24