



**Birla Institute of Technology & Science, Pilani
Pilani Campus**

Grants Consultancy and Industrial Research (GCIR)

CALL FOR RESEARCH STAFF (JUNIOR RESEARCH FELLOW) POSITION

Date: 05 May 2024

About: Applications are invited from interested and motivated candidates for TWO posts of Junior Research Fellow (JRF) in a time bound research project sponsored by the Defence Research and Development Organisation (DRDO) for a temporary period purely on contractual basis as per the following details:	
Position:	Junior Research Fellow (JRF)
Number of Vacancies:	02
Project Title:	Experimental and Theoretical Analysis of 3D Printed Hierarchical Structures for Ballistic System
Funding Agency:	Defence Research and Development Organisation (DRDO)
Investigators:	Dr. Radha Raman Mishra (<i>PI</i>) and Dr. Gaurav Watts (<i>Co-PI</i>) Department of Mechanical Engineering, BITS Pilani, Pilani Campus
Project Tenure:	3 Years
Job Description:	<p>JRF#1: FEM-based modelling of hierarchical structures for ballistic systems, experimental validation of model, simulation studies on fracture of ballistic system, material testing and characterization.</p> <p>JRF#2: Hybrid 3D printing setup development, fabricating the proposed protective designs, fabrication of composite plates and its integration with protective designs, testing of the developed ballistic protective systems.</p> <p><i>The candidates are encouraged to join the PhD program in the Mechanical Engineering Department, BITS Pilani, Pilani Campus.</i></p>
Qualification:	<p>JRF#1: Essential: First class Master's Degree (ME/MTech) with specialization in Mechanical/Design/Materials or any other relevant specialization; Desirable: Understanding of FEM modelling, exposure to FE simulations using ANSYS/ABAQUS/LS-DYNA or any other similar commercial software, and material testing and characterization.</p> <p>JRF#2: Essential: First class Master's Degree (MTech/ME/MSc) with specialization in Mechanical/Materials/Physics/Chemistry or any other relevant specialization; Desirable: exposure to material synthesis, additive manufacturing, composite fabrication, ballistics or high velocity impact study of materials, and material testing and characterization.</p>
Upper Age Limit:	Age not exceeding 35 years as of the date of the interview.
Fellowship:	₹37,000 per month; a pay revision will be considered after two years as per the rules of institute/funding agency.

Application procedure: kindly submit your applications along with updated CV through the below Google Form link: <https://forms.gle/oNbnE74vrY4Q5ydr7> .

Note:

- Candidates will be shortlisted based on their merit and as per the requirements of the project.
- Only qualified and suitable candidates will be called for an interview.
- Mere possession of the minimum qualification does not guarantee an invitation to the interview.
- The decision of the selection committee will be final for shortlisted candidates and final selection of candidates.
- Shortlisted candidates will be informed of the interview procedure after the due date.
- The appointment of the candidate will be governed by the terms and conditions of the Institute/funding agency.
- The selected candidate is expected to join within two weeks of the announcement of the interview results.

Application Deadline: 20 May 2024 (24:00 Hour)

For any queries and more details on the project, write to PI -

Dr. Radha Raman Mishra, Assistant Professor, Department of Mechanical Engineering

Email: rraman.mishra@pilani.bits-pilani.ac.in

