



Birla Institute of Technology & Science, Pilani
Pilani Campus
Grants Consultancy and Industrial Research (GCIR)

CALL FOR JRF / SRF (under IMPACT program: BITS Pilani-Wipro Infrastructure Engg.)

Application Deadline: 30th October, 2024

Date: 15th October 2024

About: Department of Mechanical Engineering, BITS Pilani, in collaboration with Wipro Infrastructure Engineering under the IMPACT program invites 1 position for JRF/SRF with attractive emoluments and grants			
Position:	JRF / SRF	Number of Vacancy:	01
Project Title:	Zero leak cylinders	Project Tenure:	04 Year
Funding Agency:	Wipro Infrastructure Engineering.	Upper Age Limit	30 years as on 30 th October 2024
Fellowship:	37000 + 27% HRA per month (fellowship can be enhanced to 42000/- per month after two years with satisfactory progress review) + Contingency: 20000/- per year + Travel support: 20000/- per year		
Principal Investigator:	Prof. Mani Sankar Dasgupta, Co-PI: Prof. Suvanjan Bhattacharyya		
Project Overview	<ul style="list-style-type: none">• Advanced Sealing Materials: Development of novel seal materials with enhanced durability, self-healing properties, or unique material combinations to improve longevity and leak prevention for Hydraulic cylinders• Innovative Mechanical Designs: Investigation of design elements, fits, tolerances, and surface finishes that can further enhance sealing effectiveness.• Sealing System Optimization: Exploring double, triple lip seals, metallic wiper seals, and other sealing mechanisms to prevent leaks and contamination over long-term use.• Validation and Testing: Utilizing state-of-the-art field reliability and endurance testing equipment to validate proposed solutions.		
Qualification:	<ul style="list-style-type: none">• Graduates in Mechanical Engineering, Chemical Engineering, Materials Science, or related disciplines having a Master's degree in relevant discipline• Strong motivation to do his/her PhD at BITS Pilani• Candidates with a passion for solving real-world industrial challenges and an interest in Sealing technology, Tribology & surface engineering, Smart composites, Self-healing material, Hydraulic systems, Machine Learning and Data Analytics and Mechanical design optimization.• Prior experience in fluid mechanics, tribology, material science, or finite element analysis (FEA) is advantageous but not mandatory.		

How to Apply:

Interested candidates should submit their latest updated 1-page CV, and a statement of purpose outlining their research interests as a single pdf file to [dasgupta@pilani.bits-pilani.ac.in] before 30th October 2024.

Please note that only qualified and suitable candidates will receive call for online interview.

