



Research Fellow Position under BITS Pilani - IIT Roorkee Joint PhD Programme

Applications are invited for the position of **Research Fellow** in the **Department of Mechanical Engineering** at **BITS Pilani, K. K. Birla Goa Campus, Goa** under the **BITS Pilani - IIT Roorkee Joint PhD Programme**.

This position is applicable only to **Ph D aspirants**. Candidates should check the eligibility criteria and qualification process of the Ph D program of BITS Pilani(<http://www.bitsadmission.com/phmain.aspx>).

Supervisor (s):

BITS Pilani Goa Campus: Prof. Saurabh Tiwari & Prof. Tarakanath Kobaku

IIT Roorkee: Prof. Pranjali Sharma & Prof. Pratham Arora

Broad Area of Research: Hydrogen Energy Systems, Hybrid Hydrogen Storage, Fuel Cells, Thermal Management and Clean Energy Technologies

Scope of Work: The research fellow will work on the design, modelling, development and experimental validation of a novel hybrid hydrogen storage system by integrating compressed gas hydrogen storage and metal hydride hydrogen storage. The work includes hydrogen management strategies, thermal management, and integration with a PEM fuel cell to develop an efficient hydrogen-to-power system. The developed system will be evaluated for applications such as telecom backup power, portable energy systems, remote/off-grid power, and defence applications.

Duration: As per BITS Pilani norms (<http://www.bitsadmission.com/phmain.aspx>)

Essential Qualification: ME/MTech/MS in Mechanical Engineering, Energy Engineering, Thermal Engineering, Chemical Engineering, Materials Engineering or allied disciplines. Candidates with an exceptional academic record in relevant areas may also apply as per the BITS Pilani PhD regulations.

Desirable Qualification: Hydrogen Energy / Fuel Cells, Thermal Management, System Modelling (COMSOL/MATLAB), Experimental Research, CAD & System Design.

Accommodation: Hostel accommodation will be provided subject to availability and will be governed by the rules and regulations of the Institute prevailing at the time of joining of the candidate.

Fellowship Amount (Rs.): As per BITS Pilani norms based on the year of Ph D and performance.

How to Apply: Please submit your **CV and Cover letter** (showing alignment and justification with the roles/responsibilities/requirements) to saurabht@goa.bits-pilani.ac.in

Last Date to Apply: 18th July 2026

