



**CALL FOR JUNIOR RESEARCH FELLOW FOR DST-SERB CRG PROJECT**

**Date: 23.07.2023**

Applications are invited from suitable candidates for **Junior Research Fellow (JRF)** to work on the following project sponsored by **DST-SERB CRG** Scheme under the supervision of the Project Investigators from **BITS-Pilani Hyderabad Campus (BPHC)** and **CSIR-Structural Engineering Research Centre (CSIR-SERC), CSIR Campus, Chennai.**

**Title of the project:** **Development of a novel cost effective and smart building material for indoor thermal comfort and enhanced energy storage**

**Brief Description:** To tackle the current and future energy challenges in buildings, the development of low cost energy storage alternatives become imminently important. In this context, for the very first time, through this interdisciplinary collaborative research, a novel cost effective nanocomposite energy storage fibre-based smart building material (SBM), that integrates the ability to achieve indoor thermal comfort and high energy storage capability will be developed.

**Project Investigators:**

<b>Prof. R. Parameshwaran (PI)</b> Associate Professor, Department of Mechanical Engineering, <b>BPHC</b>	<b>Prof. V. Vinayaka Ram (Co- PI)</b> Professor, Department of Civil Engineering, <b>BPHC</b>	<b>Dr. Maheswaran S (Co- PI)</b> Senior Principal Scientist (Advanced Materials Laboratory), <b>CSIR-SERC</b>	<b>Dr. S. Sundar Kumar (Co- PI)</b> Principal Scientist (Advanced Materials Laboratory), <b>CSIR-SERC</b>
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**Duration of the project:** **24 Months**

**Project position:** **Junior Research Fellow (JRF)**

**Number of positions:** **One**

**Fellowship amount:** Consolidated amount of INR 31,000 per month\* (or) INR 25,000 per month# (\*Applicable for valid GATE score only; #Applicable without valid GATE score)

**Prospects:**

- ✓ Selected candidate will get an excellent opportunity to work closely with the **Senior Scientists** from the **CSIR-SERC National Laboratory.**
- ✓ Selected candidate may be permitted to register for **Ph.D., programme of BITS, Pilani**, subject to the fulfilment of the requirements.
- ✓ Conversion of **Project Fellowship** to **Institute Fellowship** after completion of the project to support the **Ph.D. research work.**
- ✓ Enhancement of **Institute Fellowship** from **INR 31,000** to **INR 35,000** per month, subject to the Publications/Patents obtained from this project.
- ✓ Selected candidate will be trained on world-class and state-of-the-art facilities available at both **BITS Hyderabad** and **CSIR-SERC Campuses.**





# Birla Institute of Technology & Science, Pilani

## Hyderabad Campus

<b>Eligibility requirements:</b>	<b>Mandatory:</b> <ul style="list-style-type: none"><li>✓ B.E./B.Tech. in Mechanical/Materials Science Engineering or equivalent.</li><li>✓ M.E./M.Tech. in Mechanical Engineering with specialization in Thermal/Materials/Energy/Nanotechnology or equivalent.</li><li>✓ 60 % marks/6 CGPA for both qualifications as mentioned above.</li></ul> <b>Desirable:</b> <ul style="list-style-type: none"><li>✓ A valid GATE score is preferable but NOT mandatory.</li><li>✓ Knowledge on materials characterization is desirable.</li></ul>
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### Submission of Application:

- Interested and enthusiastic candidates with the above mentioned qualifications can submit their application **on or before August 07, 2023** using the Google form (<https://forms.gle/qwq6QH86A731cec19>).
- Candidates will be shortlisted based on their merit and as per the requirement of the project. Qualified and suitable candidates will be called for an online interview through Google Meet.
- Please note that candidates who have applied for this JRF position before NEED NOT apply again.

### Websites of Project Investigators:

<https://universe.bits-pilani.ac.in/hyderabad/parameshwaranr/Profile>

<https://universe.bits-pilani.ac.in/hyderabad/vinayak/Profile>

<https://serc.res.in/dr-maheswaran-s>

<https://serc.res.in/dr-sundar-kumar-s>

For more information, please contact:

#### **Prof. R. Parameshwaran (PI)**

Associate Professor,

Department of Mechanical Engineering,

BITS-Pilani Hyderabad Campus,

Kapra Mandal, Medchal District,

Hyderabad – 500 078, Telangana State, India.

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