BITS Pilani Pilani | Dubai | Goa | Hyderabad | Mumbai Research & Innovation	**ONE PhD Scholar Position** **Machine learning assisted inverse design of novel auxetic core architectures for improved blast resistance of sandwich structures** **Pilani Campus | Deadline: 31 July 2024** **Joining: At the earliest**

Date: 01 July, 2024

Applications are invited for **ONE** position of PhD Scholar on the project titled "**Machine learning assisted inverse design of novel auxetic core architectures for improved blast resistance of sandwich structures**", under the supervision of **Prof. Gaurav Watts**, **Prof. Vinti Agarwal** and **Prof. Radha Raman Mishra**.

Deserving candidates check the eligibility criteria and qualification process of the PhD program of BITS Pilani (http://www.bitsadmission.com/phmain.aspx).

Scope of work	Essential Qualification	Desirable Qualification
• Inverse design framework using machine learning • Simulations using ANSYS or similar commercial software • 3D printing and testing of core architectures	M.E./MTech. or an equivalent degree in Mechanical Engineering/Applied Mechanics/ Material Science/ Design/ CAD/Aerospace Engineering with a minimum of 60% aggregate in the qualifying examination	• Fundamental knowledge of Solid Mechanics and Finite Element Analysis • Exposure to modeling and analysis using ANSYS/ABAQUS or any other similar commercial software • Basic knowledge of ML

Fellowship: ₹37,000 - ₹42,000 per month (based on the year of PhD and performance)

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

Place of work: BITS Pilani, Pilani Campus, Pilani, Jhunjhunu, Rajasthan, India.

Application process: Please apply with **CV and Cover letter** (showing alignment and justification with the roles/responsibilities/requirements) using this form

- Google form link: https://forms.gle/KWJzzB95QzTm1ReC8
- Deadline: **31 July 2024**

The interview for the advertised position will be conducted online, and the shortlisted candidates will be informed through e-mail.

For more details, please contact:

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