



BITS Pilani

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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: 15 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
<ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• 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: **15 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:

Prof. Gaurav Watts
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BITS Pilani, Pilani Campus

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Website: <https://www.bits-pilani.ac.in/pilani/gauravwatts/Profile>