



BITS Pilani

Pilani | Dubai | Goa | Hyderabad | Mumbai
Research & Innovation

Research Fellow (to join as PhD Scholar)

Short Title: Transfer Learning-Based Smart Structural Damage Assessment Controller
Pilani Campus | Deadline: 16 Oct 2023 |
Joining: At the earliest

Date: 18 Sept, 2023

Applications are invited for **ONE** position of **Research Fellow*** on project, “Development of Transfer Learning-Based Smart Structural Damage Assessment Controller for Autonomous Prediction of Damage Scenarios in Digital Twin-Generated Population of Civil Structures” under the supervision of **Dr. Shashank Gupta**, Dept. of CSIS, Pilani Campus, **Dr. Devendra G. Patil** Dept. of Mechanical Engg., Goa Campus and **Dr. S. N. Patel**, Dept. of Civil Engg, Pilani Campus .

* The selected candidate is encouraged to join PhD Program of BITS Pilani. Interested 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
The project broadly focusses on the Structural Health Monitoring (SHM) of civil structures using piezo-based active sensing and stochastic analysis. The candidate is expected to perform experiments using computational modelling driven by AI/ML frameworks and Digital Twin (DT) simulations.	Candidate must hold a firstclass M.E./ M.Tech. / MS / M.Sc. / B.Tech. in Computer. Science/IT/Electronics/Electrical or equivalent degree.	Good spoken English and experience in technical writing. Prior experience in AI/ML frameworks, Python, MATLAB, NI -LabView Any prior cross-disciplinary experience

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, Rajasthan 333031

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/WGSDp6GeLesuRZ8T7>
- **Deadline Extended to: 16 October 2023**

Preliminary shortlisting will be based on resume and telephonic/audio-visual interview within a week of last date of application. For final interview, the candidate will be informed through email/ Phone for interview. No TA/DA will be provided in case of personal interview. For more details, please contact:

Dr. Shashank Gupta
Department of Computer Science and Information Systems (CSIS)

BITS Pilani, Pilani Campus, Rajasthan

Email: shashank.gupta@pilani.bits-pilani.ac.in

Webpage: <https://www.bits-pilani.ac.in/pilani/shashank-gupta/>