



Dated: 22-04-2025

Advertisement for Recruitment of a Junior Research Fellow

Applications are invited from highly motivated candidates for a **Junior Research Fellow (JRF)** position in the research project titled “**Alternative Use of Iron Ore Tailings (IOTs) in Stabilization of Soft, Expansive Subgrade and Base Layers of Flexible Pavements in Conjunction with Geosynthetics: Transforming Waste into Engineered Material**” (*funded by Ministry of Textiles, Govt. of India*). This project aims to evaluate the performance, durability, and sustainability of geosynthetic reinforced flexible pavements under varying traffic and environmental conditions. The selected candidate will be involved in laboratory experiments, field investigations, and numerical modeling to assess the structural behavior and long-term efficiency of these pavement systems. Fieldwork for data collection, testing, and validation will be an integral part of the research.

Eligibility

Essential qualifications:

- M. E./M. Tech. in Civil Engineering/Geotechnical Engineering and Pavement Geotechnics or allied fields.
- GATE qualification in Civil Engineering (CE) or equivalent exam qualified in allied fields.

Desirable qualifications:

- Candidates with working experience in Pavement Geotechnics/Geosynthetics and Geotechnical Engineering, along with expertise in numerical modeling software like PLAXIS, ABAQUS, or any FEM tools capable of modeling flexible pavement layers, will be preferred.
- Candidates should have a strong foundation in geotechnical engineering and the ability to efficiently manage multiple tasks.

Fellowship: ₹ 37,000/- per month + HRA (as per norms)

Duration: The initial appointment will be for 6 months, which is extendable further based on the candidate's performance.

Job Description:

- Preparation of flexible pavement layers in the laboratory.
- Field implementation of geogrid-reinforced flexible pavement systems.
- Project involvement in laboratory testing and fieldwork related to geosynthetics and flexible pavement layers.
- Data collection, analysis, and validation for geosynthetic-reinforced flexible pavements

How to Apply:

Interested candidates shall submit their application through the link **Google form link:** <https://forms.gle/yJqdh6zMxK7X343M6> by 11:59 PM, May 5th, 2025.

Address for Correspondence:

Dr. Ramu Baadiga

Assistant Professor,

Department of Civil Engineering,

Indian Institute of Technology (IIT), Indore

Khandwa Road, Simrol, Indore - 453552,

India.

Email: baadigaramu@iiti.ac.in

[+91-7675015763](tel:+917675015763)

Terms and Conditions:

- *Only shortlisted candidates will be called for an interview as per IIT norms.*
- *Selected candidates will be intimated by e-mail for an offline interview at IIT Indore. The PI shall not be responsible for email delay, if any, which will result in disqualification/rejection of the application.*
- *No travel allowance (TA) or dearness allowance (DA) will be provided to candidates for attending the interview*
- *The decision of the selection committee will be final.*
- *The selected candidate must join duty immediately upon receipt of the offer.*
- *The fellowship may be terminated with a 30-day notice before completion of the tenure if performance to date is not deemed satisfactory. The Institute reserves the right to fill out or not fill out the post advertised.*