Applications Invited for Ph. D. Admission

Dr. Akshay Gupta

Assistant Professor

DRIVE SAFE Lab
Civil and Infrastructure Engineering, IIT Jodhpur

akshaygupta@iitj.ac.in

https://www.linkedin.com/in/akshay-gupta-47a562137/

RESEARCH AREAS

- **Road safety assessment**
- **Driving behavior analysis**
- **Human factors**
- **Crash-risk prediction**
- **Emerging sensing technologies such as LiDAR and camera-based systems**

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Dr. Amit Kumar Rathi

Assistant Professor

sTructural Health And Reliability assessment (THAR) Research Lab.
Civil and Infrastructure Engineering, IIT Jodhpur

akrathi@iitj.ac.in

RESEARCH AREAS

- **Structural Dynamics**
- **Structural Reliability Assessment and Design Optimization**
- **Structural Health Monitoring**
- **Analysis and Rating of Bridges**
- **Heat Vulnerability Assessment**

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Dr. Anusha S. Basavaraj

Assistant Professor

Sustainability Assessment & Technology for Infrastructure (SĀTI) lab
Civil and Infrastructure Engineering, IIT Jodhpur

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https://www.linkedin.com/in/anusha-s-basavaraj-72a38539

RESEARCH AREAS

- **Life Cycle Assessment**
- **Assessment of Sustainability in Construction**
- **Alternative Construction Technologies**
- **Performance Based Sustainability Assessment**
- **Carbon Accounting in Construction**

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Dr. Bhupendra Singh

Assistant Professor

Transportation Engineering Research Group
Civil and Infrastructure Engineering, IIT Jodhpur

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linkedin.com/in/bhupendra-singh-9b668993

RESEARCH AREAS

- **Pavement Materials**
- **Pavement Analysis and Design**
- **Cold Mix Asphalt**
- **Waste Utilization in Pavement**
- **Bio Based Asphalt Binders**

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Dr. Deepak Swami

Professor

Subsurface Hydrology and Forensic Research Lab (ShFRL)
Civil and Infrastructure Engineering, IIT Jodhpur

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linkedin.com/in/deepak-swami

RESEARCH AREAS

- **Surface Moisture Dynamics**
- **Subsurface Flow and Transport Modeling**
- **Contaminant Transport Modeling**
- **Dynamic Plant Uptake**
- **Risk Analysis and Aquifer Remediation**

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Dr. Falak Vats

Assistant Professor

Structural & Earthquake Engineering Research Group (SEERG)
Civil and Infrastructure Engineering, IIT Jodhpur

fvats@iitj.ac.in

linkedin.com/in/falak-v

RESEARCH AREAS

- **Performance-Based Earthquake Engineering**
- **Risk-Based Design of Seismic Isolation Systems**
- **Risk-Consistent Seismic Design and Assessment**
- **Multicomponent Seismic Excitation**
- **Aging Effects on Seismic Performance**

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Dr. Mayank Suman

Assistant Professor

HydroClimatic Research Group
Civil and Infrastructure Engineering, IIT Jodhpur

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https://www.linkedin.com/in/msatlinkdin/

RESEARCH AREAS

- **Climate change mitigation strategies**
- **Hydrological Cycle under Climate Change**
- **Impact of changing climate on hydrological extremes**
- **Remote sensing application in hydro-climatology**

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Dr. Monika Dubey

Assistant Professor

Sustainable Environmental Systems Research Group
Civil and Infrastructure Engineering, IIT Jodhpur

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linkedin.com/in/M-DY

RESEARCH AREAS

- **Water and wastewater treatment and reuse**
- **Biological and advanced treatment processes**
- **Emerging contaminants and antimicrobial resistance**
- **Resource recovery from wastewater**
- **Carbon sequestration and carbon accounting**

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Dr. P. Ravi Prakash

Assistant Professor

Fire, Computational Mechanics and Digital Engineering Research Group
Civil and Infrastructure Engineering, IIT Jodhpur

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linkedin.com/in/ravi-prakash-p-710a192a/

RESEARCH AREAS

- **Performance-based Structural Fire Engineering**
- **Fire hazard modeling**
- **Fracture mechanics in unreinforced and confined masonry**
- **AI-based predictive modeling and early warning systems for buildings and bridges**
- **BIM and its applications (parametric modeling, sustainability assessment, and digital Twins)**

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Dr. Pradeep Kumar Dammala

Assistant Professor

Soil and Advanced Foundation Analysis for Resilient Infrastructure (SAFARI)
Civil and Infrastructure Engineering, IIT Jodhpur

pkdammala@iitj.ac.in

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RESEARCH AREAS

- **Offshore Geotechnics**
- **Rapid Soil Stabilization**
- **Dynamic Soil Interaction**
- **Arid Infrastructure**

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Dr. Ranju Mohan

Associate Professor

Transportation Systems and Traffic Modelling (TSTM) Lab
Civil and Infrastructure Engineering, IIT Jodhpur

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https://www.linkedin.com/in/ranju-mohan-11845359/

RESEARCH AREAS

- **Multivehicle Class Traffic Flow Theory and Modelling**
- **Driver Behaviour Modelling**
- **Transportation system Engineering and Management**
- **Transportation Network Behaviour and Optimization**
- **Travel Behaviour Modelling**

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Dr. Saran Aadhar

Assistant Professor

Civil and Infrastructure Engineering, IIT Jodhpur

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https://sites.google.com/iitj.ac.in/hydromonitoringlab

https://www.linkedin.com/in/saran-aadhar-a7b43a106/

RESEARCH AREAS

- **Surface Hydrology**
- **Hydroclimatic extremes**
- **Hydrologic modelling in anthropogenic climate**
- **Impact of climate change and variability on water resources**
- **Dam Safety and Reservoir Monitoring**

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Dr Sarath Chandra Reddy Nallala

Assistant Professor

Multiscale Assessment of Granular Materials and Assemblies (MAGMA)
Civil and Infrastructure Engineering, IIT Jodhpur

scnallala@iitj.ac.in

linkedin.com/in/dr-sarath-chandra-reddy-nallala-15023439

RESEARCH AREAS

- **Multiscale mechanics of Granular materials**
- **Discrete element method modeling of Granular materials**
- **Tribological Behavior of Granular materials**
- **Customized Equipment development for mechanism specific testing**

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Dr. Shuvajit Mukherjee

Assistant Professor

Metamaterials and Wave Mechanics Lab (MWML)
Civil and Infrastructure Engineering, IIT Jodhpur

Shuvajit@iitj.ac.in

linkedin.com/in/shuvajitm

RESEARCH AREAS

- **Metamaterials based vibration mitigation**
- **Wave propagation in structures**
- **Design of composite structures**
- **Computational continuum mechanics**
- **Fluid structure interaction**

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Dr. Sreejith Krishnan

Assistant Professor

Resilient and Sustainable Infrastructure Research Group
Civil and Infrastructure Engineering, IIT Jodhpur

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https://in.linkedin.com/in/sreejith-krisnan-95a74664

RESEARCH AREAS

- **Low Carbon Cements**
- **Durability Issues in Concrete**
- **Non-Destructive Evaluation of Structures**
- **Chemistry of Cementitious Materials**
- **Admixtures for Cements**

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Dr. Subham Jain

Assistant Professor

Pavement Engineering group
Civil and Infrastructure Engineering, IIT Jodhpur

sjain@iitj.ac.in

linkedin.com/in/subham-jain-36901a235/

RESEARCH AREAS

- **Pavement functional evaluation**
- **Aggregate shape characterization**
- **Pavement management systems**
- **Automated distress characterization**

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Dr. Susmita Panda

Assistant Professor

Smart Transport & Railway Infrastructure Dynamics & Engineering (STRIDE)
Civil and Infrastructure Engineering, IIT Jodhpur

msusmitapanda@iitj.ac.in

www.linkedin.com/in/susmita-panda-ph-d-b49815257

RESEARCH AREAS

- **High-speed Train-bridge Interaction Analysis**
- **Railway Geotechnics**
- **Digital Twins for Railway Track Maintenance**
- **Vibration-based Damage Detection In Railway Structures**

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Dr. Tekcham Gishan Singh

Assistant Professor

Structural Steel & Steel-Concrete Composite Research Group (S3C2)
Civil and Infrastructure Engineering, IIT Jodhpur

tekcham@iitj.ac.in

www.linkedin.com/in/gstekcham

RESEARCH AREAS

- **Testing and design of steel structure**
- **Tubular and thin-walled structures**
- **Steel corrosion and retrofitting**
- **Concrete-filled steel tubes**
- **Sustainable infrastructure**

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Dr. Trishikhi Raychoudhury

Associate Professor

TR Research Group
Civil and Infrastructure Engineering, IIT Jodhpur

trishikhi@iitj.ac.in

https://www.linkedin.com/in/trishikhi-raychoudhury-a5811224/

RESEARCH AREAS

- **Transport of nano-colloids in the subsurface**
- **Soil-microplastic interactions and their impact on the environment**
- **Fluoride removal from water and industrial effluent: Design of suitable reactor**
- **Recovery of water from industrial effluent**

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Dr. Yogiraj Sargam

Assistant Professor

Materials, Mechanisms, and Methods (M3) Group
Civil and Infrastructure Engineering, IIT Jodhpur

ysargam@iitj.ac.in

linkedin.com/in/yogiraj-sargam-ph-d-7173a952/

RESEARCH AREAS

- **Concrete Technology**
- **CO_2 Utilization in Cement and Concrete Value Chain**
- **Waste Valorization**
- **Nanomaterials**
- **Material Characterization**

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