

Areas for Summer Internship 2026 for UG Students

Name of Faculty Mentor	Area of Summer Internship 2026
Department of Astronomy, Astrophysics and Space Engineering (DAASE)	
Dr. Saurabh Das	AI/ML for Space and Atmospheric Science
Dr. Narendra Nath Patra	Instrumentation for space-based observatories
Dr. Unmesh Khati	<ol style="list-style-type: none"> 1. Modeling dielectric constant retrievals using radar data and deep-learning 2. UAV Flight controller logic development 3. AI/ML applications with satellite images
Dr. Soumavo Ghosh	Photometric characterisation of stellar bar using mock observations from galaxy simulation
Dr. Prakash Gaikwad	Feasibility Study of Nanorobotic Deployment on the Lunar Surface
Dr. Mukul Bhattacharya	<ol style="list-style-type: none"> 1. Investigating particle acceleration and neutrino production in magnetized coronae of AGNs 2. Studying the morphologies of FRB host galaxies and their contribution to observed dispersion measures, 3. Probing nucleosynthesis and GW-triggered kilonova observations from binary mergers and supernovae
Department of Chemical Engineering	
Dr. Kanala Venkata Sravana Chaithanya	Fluid Mechanics
Dr. Preetika Karnal	Digital twin of instabilities Prediction of molecular property of polymer
Dr. Abhilasha Maheshwari	AI/ML framework for chemical and environmental systems; Sustainability and Energy

Department of Civil Engineering (CE)	
Professor Manish Kumar Goyal	Water Resources, Climate Change, AI and Data Mining, Air Pollution, Remote Sensing
Professor Neelima Satyam	Geotechnical Engineering
Dr. Lalit Borana	Geotechnical Engineering / Geoenvironmental Engineering
Dr. Ashootosh Mandpe	<ol style="list-style-type: none"> 1. Anaerobic Digestion for Renewable Energy – Biogas innovations, methane recovery & circular economy integration 2. Microbial Fuel Cells for Energy & Wastewater Treatment – Hybrid systems, microbial optimization & scaling challenges 3. Bio Enzymes in Waste Management – Sustainable catalysts, food waste-derived enzymes & microbial activity enhancement 4. GIS & Remote Sensing for Waste Monitoring – AI-driven landfill mapping, pollution tracking & predictive modeling 5. Landfill Analysis & Biogas Recovery – Leachate management, landfill microbiology & methane emission studies 6. Composting Technologies – AI-driven process optimization, microbial consortia & carbon sequestration potential 7. Briquetting Technology for Renewable Energy – Biomass briquettes, pollution reduction & industrial applications 8. AI/ML in Wastewater Analysis & Treatment – Predictive contaminant mapping, real-time monitoring & AI-driven optimization
Dr. Guru Prakash	Structural Health Monitoring, Structural Engineering
Dr. Mayur Shirish Jain	Environmental Engineering; Waste Systems; Water Management
Dr. Priyank I. Sharma	Flood modelling, River rejuvenation, Compound extremes
Dr. Gourab Sil	Traffic Engineering, Road Safety, Roadway Geometric Design
Professor Sandeep Chaudhary	Sustainable Construction
Department of Computer Science and Engineering (CSE)	
Dr. Nagendra Kumar	AI/ML, Natural Language Processing, Deep Learning, Data Science, LLMs
Dr. Soumi Chattopadhyay	Deep learning

Dr. Lawqueen Kanesh	Graph Algorithms, Parameterized Complexity and Algorithms, Approximation Algorithms
Dr. Puneet Gupta	Deep Learning
Dr. Ayan Mondal	IoT and Edge Computing
Professor Kapil Ahuja	Applied Machine Learning, Bioinformatics, Health Informatics, Economics of Networks, Computational Optimization, and Numerical Linear Algebra.
Dr. Debasish Pattanayak	Distributed Algorithms for Swarm Robots and Multi agent systems, Simulators and Graph Algorithms
Professor Surya Prakash	AI and Deep Learning
Dr. Bodhisatwa Mazumdar	Cryptography, Hardware Security, and ML Algorithms to these security aspects
Professor Gourinath Banda	IoT, Autonomous Cars/Aerial Vehicles. Software Defined Vehicles, Advanced Systems
Department of Electrical Engineering (EE)	
Dr. Sharad Kumar Singh	Swarm Robotics
Dr. Ayush Tripathi	Biomedical Signal Processing, EEG signal processing, AI applications for biomedical signals, automated sleep analysis
Professor Swaminathan R	6G Wireless Technologies
Dr. Subhadeep Paladhi	Power System Monitoring and Protection
Dr. Sumit Gautam	Wireless Communications, Wireless Power Transmission, Wireless Energy Harvesting, Optimization Techniques, AI/ML
Dr. Appina Balasubramanyam	Image and Video Processing
Dr. Saptarshi Ghosh	1. FSS-based absorber using Deep Learning 2. Coded metamaterials for stealth applications 3. FSS-based band pass radome 4. Conformal microwave antenna
Professor Trapti Jain	Data analytics in smart grid, AI applications in power systems
Professor Vimal Bhatia	AI/ML, IoT, Wireless Communications, Quantum Communications
Dr. B Prathap Reddy	Power Electronics and Electrical Machines
Professor Vivek Kanhangad	Image processing, Deep learning
Professor Ram Bilas Pachori	Signal Processing and Machine Learning
Dr. Lokesh Kumar Dewangan	Power System and Power Electronics

Professor Santosh Kumar Vishvakarma	VLSI Circuit and System Design for AI Chips
Department of Humanities and Social Sciences (HSS)	
Dr. Abhishek Yadav	Philosophy of Mind, Philosophy of AI
Dr. Kedarmal Verma	Environmental Cognition Sleep and Cognition
Professor Ruchi Sharma	Economics of Innovation, International Economics, Industrial Economics
Dr. Kalandi Charan Pradhan	Contemporary Issues in Development Economics and Socioeconomic Impacts of Climate Change
Dr Akshaya Kumar	Comparative Media Studies, Digital Economy, Platform Societies
Department of Mathematics	
Dr. Mohd. Arshad	Statistics
Professor Sk Safique Ahmad	Localised wave in shell structure
Dr. Santanu Manna	Project 1: Solving wave equations using a neural network; OR Project 2: Deep operator network (DeepONet) for wave propagation prediction OR Project 3: Inverse problem: Source localization in wave equation using neural networks
Department of Mechanical Engineering (ME)	
Dr. Harekrishna Yadav	Fluid Flow, Heat Transfer Enhancement, Renewable Energy
Professor Dhinakaran Shanmugam	Thermal Science and Engineering (CFD)
Professor Santosh Kumar Sahu	Thermal Engineering, Jet impingement, Phase change composite, Thermal Management, HVAC systems, LNG powered vehicles
Professor I A Palani	Mechatronics, Soft Robotics, Smart manufacturing
Dr. Vijai Laxmi	1. Development of microfluidics device for healthcare application. 2. Multiphase Modelling of Blood Flow for Studying Microcirculatory Disorders
Dr. Satyanarayan Patel	Piezoelectric energy harvesting, energy storage
Dr Pradeep Kundu	Digital Twin, Scientific Machine Learning, Standardised Software Architecture, Condition

	Monitoring, Fault Prognostics, Semiconductor Process Monitoring, Battery Health Monitoring
Dr Ashish Rajak	Additive welding, automation
Dr S Janakiraman	Next-generation Energy Storage Materials for Rechargeable Batteries
Dr Aman Khurana	Development of futuristic smart actuators for soft robotics applications
Department of Mehta Family School of Biosciences and Biomedical Engineering (MFSBSBE)	
Dr Lokesh Basavarajappa	Medical image reconstruction and processing
Dr Hem Chandra Jha	Infection Bioengineering
Dr Sourav Chandra	1. Virtual reality and human-robot interaction 2. Wearable sensor framework for movement tracking 3. Physiological signal processing
Department of Mehta Family School of Sustainability (MFSOS)	
Professor Kiran Bala	Environmental Biotechnology, Bioplastics, biodegradation
Professor Pritee Sharma	Sustainability Studies: Environmental Economics (Food-Water-Energy Resources Analysis)
Professor Mirza S Baig	Inflammation and Cancer Biology
Department of Metallurgy Engineering and Materials Science (MEMS)	
Professor Rupesh Devan	Materials Energy Storage/Conversion
Dr Mrigendra Dubey	Soft materials for energy applications
Dr Jayaprakash Murugesan	Mechanical behavior of materials, alloy development, materials joining, advanced materials
Dr Dharendra Kumar Rai	Energy storage, Energy harvesting
Professor Vinod Kumar	Metal recovery from industrial wastes; and Development of Nanocomposites
Dr. Eswara Prasad Korimilli	High strain rate deformation of Ti alloys; Laser Shock Peening of structural alloys
Dr Ram Sajeevan Maurya	Alloys design and processing

Dr Hemant Borkar	Lightweight materials for structural applications Additive manufacturing
Department of Physics	
Dr. Debajyoti Sarkar	Quantum information theory
Professor Somaditya Sen	Experimental Condensed Matter Physics
Dr Mritunjay Verma	String theory
Professor Raghunath Sahoo	Quark Gluon Plasma and the Large Hadron Collider
Professor Krushna R Mavani	Spectroscopic investigations of thin films and nano structures
Professor Ankhi Roy	Study of detector physics and simulation with GEANT4
Professor Rajesh Kumar	Smart electrochromic windows; Supercapacitors and energy storage; Nanoscience and nanotechnology; Raman spectroscopy and Raman microscopy
Dr Srimanta Pakhira	Physics, Chemistry and Engineering
School of Innovation	
Dr Pallavi Rani	Design, Visual communication

Note:

1. The Internship fees are non-refundable once paid.
2. Undergraduate students must contact their faculty mentor with any queries or clarifications.
3. Written email consent from the faculty mentor at IIT Indore, in the prescribed format, is mandatory.
4. The last date to fill out the application form is April 20, 2026.
5. Only the selected students will get the payment link.
6. For the Temporary Entry Pass, the students need to fill out the Google Form
<https://docs.google.com/forms/d/e/1FAIpQLSeuY1NdoTw4NScs7G3Uawb8CRrcfj1WpWLOwHRs75ge4oAlfQ/viewform>