Indian Institute of Technology Guwahati

Research and Development Section

Guwahati-781039, Assam

Applications are invited for an **Interview (Online)** for the following post in the DST-sponsored project at the Department of Humanities and Social Sciences, IIT Guwahati.

Interview Date: 27-12-2024

Time – 10 .00AM

Venue: Online (Webex)

Sl. No.	Designation	Number of Vacancies	Pay Recommended (Rs.)	HRA (Rs.)	Medical (Rs.)	Total Amount (Rs.)	Duration of Appointment in months	Qualifications
1	Principal Project Associate	01	49,000	Yes (18%)	0	57,820	11	**Essential:** 1. PhD in Natural Science/Environment Science from a recognized university with a good academic record and 2. 4 years of experience in research and development in industrial and academic institutions or science and technology organizations and scientific activities and services. **Desirable Skills:** • Expertise in GIS and remote sensing. • Experience working on flood and drought hazard assessments. • Multidisciplinary research experience. • Knowledge of both qualitative and quantitative research methods. • Proficient writing and communication skills and ability to work in a team

| 2 | JRF GATE/NET | 01 | 37,000 | Yes (18%) | 0 | 43,660 | 11 | **Essential:** Master's degree in Economics with specialization in Environmental/ Mathematical Economics/ Econometrics from a recognized university with a minimum 60% mark or 6.0 CPI (on a 10-point scale) at the master's degree level selected through a process described through the following:
1. Scholars who are selected through the National Eligibility Test -CSIR-UGC NET, including lectureship (Assistant Professorship) and GATE.

Desirable Skills:
• Expertise in GIS and remote sensing.
• Aptitude for multidisciplinary research work.
• Knowledge of both qualitative and quantitative research methods.
• Proficient writing and communication skills and ability to work in a team |

3	JRF GATE	01	37,000	Yes (18%)	0	43,660	11	**Essential:** Bachelor's/Master's degree in Engineering (preferably in Electronics & Communication Engineering/ Computer Science & Engineering) with a qualified and valid GATE score.

Essential:
Bachelor's/Master's degree in Engineering (preferably in Electronics & Communication Engineering/ Computer Science & Engineering) with a qualified and valid GATE score.

Desirable Skills:
Key Requirements for JRF:
1. **Strong Mathematics Background:**
- Proficiency in Linear Algebra, Calculus, and Probability
- Knowledge of statistics for data analysis and model evaluation
2. **Expertise in Deep Learning (DL)**
- Thorough understanding of neural networks, CNNs, RNNs, GANs, and other deep learning architectures
- Experience with model training, tuning hyperparameters, and evaluating performance metrics
- Knowledge of transfer learning and fine-tuning for enhancing model accuracy
3. **Computer Vision (CV) Skills**
- Proficiency in image classification, object detection, segmentation, and related CV tasks
- Familiarity with state-of-the-art CV architectures (e.g., ResNet, YOLO, U-Net) and their applications
- Experience with data augmentation techniques and preprocessing pipelines for image data
4. **Project Experience in Deep Learning and Computer Vision**
- Hands-on experience with DL and CV projects, ideally showcased through research publications,

									competitions, internships, or industry projects
									• Proven ability to handle large-scale datasets and work with complex, real-world applications in DL/CV
									5. Deep Learning Frameworks:
									• Advanced proficiency with PyTorch and TensorFlow for model development, deployment, and experimental workflows
									6. Familiarity with Version Control Systems:
									• Knowledge of Git for version control and collaboration on research projects
									7. High-Performance Computing (HPC)
									• Experience with GPU computing and CUDA programming to accelerate DL training
									• Familiarity with high-performance computing resources for large-scale model training
									8. Technical Documentation and Communication Skills
									• Ability to document research findings, code, and methodologies clearly
									• Strong presentation skills for sharing research results and technical concepts with the team.

| 4 | Technical Assistant | 01 | 20,000 | Yes (18%) | 0 | 23,600 | 11 | **Essential:**
BSc. / 3 years Diploma in Engineering & Technology

Desirable Skills:
Key Responsibilities and Requirements for Technical Assistant:
1. **Operating Systems and Software Installation:**
• Proficiency with Linux and Windows OS
• Experience with installation and configuration of Python and Python libraries
2. **Network & Device Configuration:**
• LAN setup and troubleshooting, printer configuration
• VPN setup and remote access support to ensure secure and efficient remote operations
3. **Hardware and Software Troubleshooting:**
• Diagnosing and resolving issues on desktops, laptops, and peripheral devices, minimizing downtime and maintaining system performance
4. **GPU and CUDA Configuration:**
• Experience with GPU setup and CUDA installation to support high-performance computing tasks
5. **Shell Scripting for Supercomputers:**
• Proficiency in shell scripting to manage workflows on supercomputing environments
6. **Basic Cybersecurity Practices:**
• Knowledge of firewall setup, antivirus management, and data security best practices to safeguard organizational data and systems |

How to apply and selection process: Candidates have to appear in an online interview, which is scheduled on 27-12-2024 at **10 AM**. An advance copy of the CV giving details of all educational qualifications, experience, contact address, phone no., email, etc., along with scanned copies of relevant documents should be sent on or before 15-12-2024 at the latest by 5 PM to the recruitmentabiitg@gmail.com email.

Shortlisted candidates will be informed via email on 24-12-2024.
Selection will be based on the performance of the candidate in the interview. Candidates will not be sent any call letter separately.

For any clarification, contact Professor Anamika Barua (Principal Investigator)

Email: recruitmentabiitg@gmail.com

Phone: 0361-258-2563/2580

Assistant Registrar (R&D)

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Principal Project Associate (PPA)
Fixed Stipend/Fellowship/Salary amount of Rs 49000 p.m. + (HRA) in a DST Sponsored Project sanctioned up to (Duration/Tenure) 24 Months. The post is purely temporary and co-terminus with the project.
The upper Age Limit is 40 Years (relaxable for 3 years for OBC and 5 years for SC/ST/Physically Handicapped/Female candidates) per GOI rules.

Junior Research Fellow (JRF)
The candidate should be interested in pursuing a PhD within the project's scope.
Fixed Stipend/Fellowship/Salary amount of Rs 37000 p.m. + (HRA) (for first two years) and Rs 42,000 p.m. + (HRA) (for 3rd year) in a DST Sponsored Project "**Low-cost Disaster & Emergency Services for Communication At Risk (LODESTAR)**" sanctioned up to (Duration/Tenure) 36 Months. The post is purely temporary and co-terminus with the project. After the 3rd year, the candidate will be under Institute Fellowship.
The upper Age Limit is 28 Years (relaxable for 3 years for OBC and 5 years for SC/ST/Physically Handicapped/Female candidates) per GOI rules.

Technical Assistant (TA)
Fixed Stipend/Fellowship/Salary amount of Rs 20000 p.m. + (HRA) in a DST Sponsored Project "**Low-cost Disaster & Emergency Services for Communication At Risk (LODESTAR)**" sanctioned up to (Duration/Tenure) 36 Months. The post is purely temporary and co-terminus with the project.
The upper Age Limit is 50 Years (relaxable for 3 years for OBC and 5 years for SC/ST/Physically Handicapped/Female candidates) per GOI rules.