



**Birla Institute of Technology & Science, Pilani**  
**Pilani Campus**  
Grants Consultancy and Industrial Research (GCIR)

**CALL FOR JUNIOR RESEARCH FELLOW (JRF) POSITION**

**Date: 28 Aug 2024**

**Deadline: September 5<sup>th</sup>, 2024**

**About:** Applications are invited from interested and motivated candidates for the post of Junior Research Fellow in a time-bound research project for a temporary period purely on a contractual basis as per the following details:

<b>Position:</b>	Junior Research Fellow
<b>Number of Vacancies:</b>	<b>01</b>
<b>Project Title:</b>	Artificial Intelligence framework to identify historical fluvial morphological trends (water quality, stream discharge, land use) based on climate change.
<b>Funding Agency:</b>	The Nature Conservancy, TNC India
<b>Principal Investigator:</b>	Dr. Dhruv Kumar, Department of Computer Science & Information Systems, BITS Pilani
<b>Project Tenure:</b>	11 months
<b>Job Description:</b>	<p>This multidisciplinary project is aimed at developing an AI framework to analyze historical fluvial morphological trends (e.g., water quality, stream discharge, land use) under the influence of climate change. We will use advanced data processing and machine learning techniques to predict future river discharge and related parameters based on climate forecasts.</p> <p>The successful candidate will be responsible for the following tasks:</p> <ol style="list-style-type: none"><li>1. Lead the AI modelling aspects of the project, including the development and implementation of machine learning algorithms to forecast future fluvial morphological trends.</li><li>2. Work closely with eco-hydrological scientists and data analysts to preprocess historical and climate data and to integrate various General Circulation Models (GCMs) into the prediction framework.</li><li>3. Document results, present findings at conferences, and contribute to publishing the work in high-impact journals.</li></ol>
<b>Qualification:</b>	<ol style="list-style-type: none"><li>1. Bachelors or Masters in Computer Science, Electrical Engineering, Electronics, Machine Learning, Artificial Intelligence, or related fields.</li><li>2. Strong skills and experience in programming languages or frameworks such as Python, PyTorch, and TensorFlow.</li><li>3. Expertise in AI modelling or climate modelling is preferred.</li></ol>
<b>Upper Age Limit</b>	Age not exceeding 35 years as of the date of interview. Age relaxation is allowed for up to 5 years for SC/ST/PH/OBC/WOMEN candidates.
<b>Fellowship:</b>	₹ 37,000 per month
<b>Joining:</b>	Selected candidates must join within a week of the interview.

**How to Apply:**

Please apply with CV and Cover letter (showing alignment and justification with the roles/responsibilities/requirements) using the below form

**Google Form Link:** <https://forms.gle/Lgnh5dKQ86mhT1MTA>

**Deadline:** 5th September 2024

**Preliminary shortlisting will be based on resume and telephonic/audio-visual interview between September 6th – September 10th, 2024.** For final interview, the candidate will be informed through e-mail for interview. For more details, please contact:

Prof. Dhruv Kumar  
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