



**CALL FOR RESEARCH STAFF POSITIONS (JRFs) IN MINISTRY OF TRIBAL AFFAIRS  
funded PROJECT**

**Date: 12<sup>th</sup> July 2022**

**About:** Applications are invited from young, energetic, and research-inclined students for the post of Junior Research Fellow (JRF) in a time bound research project for a temporary period purely on contractual basis as per the following details:

<b>Position:</b>	<b>Junior Research Fellow (JRF)</b>																						
<b>Number of Vacancy:</b>	<b>FOUR (04)</b>																						
<b>Project Title:</b>	<b>AI Intervened Tribal Development by improving Water Conservation, Livelihood, and Health</b>																						
<b>Principal Investigators:</b>	<b>Prof. Sudhirkumar Barai &amp; Prof. Navneet Goyal</b>																						
<b>Project Tenure:</b>	<b>03 years</b>																						
<b>Job Description:</b>	JRFs will be required to carry out work as per the details of four sub-projects provided in the table below. One (01) JRF is required for each project. JRFs will mainly work on AI/ML, Computer Vision, NLP, Earth Observation, etc. Some projects may also involve a limited amount of field work.																						
	<table border="1"><thead><tr><th>S.No.</th><th>Project</th><th>Collaborators</th><th>Skill set</th></tr></thead><tbody><tr><td>1.</td><td>Developing a “Soft-Test Kit” for SCD using AI</td><td>AIIMS - Jodhpur &amp; NIRTH - Jabalpur</td><td>AI/ML, Deep Learning</td></tr><tr><td>2.</td><td>A drone-based spring monitoring system for water conservation</td><td>UNDP &amp; state TRIs</td><td>Computer Vision, GIS, AI for Earth Observation</td></tr><tr><td>3.</td><td>Developing AI-based language translation systems for low-resource tribal languages</td><td>State TRIs &amp; Bhasha Sangam Initiative</td><td>NLP, Deep Learning</td></tr><tr><td>4.</td><td>a. Automatically generating language independent promotional content for welfare schemes b. Data-driven process analytics to improve reach, response, &amp; effectiveness of social security schemes</td><td>Ministry of Tribal Affairs (MoTA)</td><td>Multimodal Learning, NLP, Deep Learning</td></tr></tbody></table>	S.No.	Project	Collaborators	Skill set	1.	Developing a “Soft-Test Kit” for SCD using AI	AIIMS - Jodhpur & NIRTH - Jabalpur	AI/ML, Deep Learning	2.	A drone-based spring monitoring system for water conservation	UNDP & state TRIs	Computer Vision, GIS, AI for Earth Observation	3.	Developing AI-based language translation systems for low-resource tribal languages	State TRIs & Bhasha Sangam Initiative	NLP, Deep Learning	4.	a. Automatically generating language independent promotional content for welfare schemes b. Data-driven process analytics to improve reach, response, & effectiveness of social security schemes	Ministry of Tribal Affairs (MoTA)	Multimodal Learning, NLP, Deep Learning		
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# Birla Institute of Technology & Science, Pilani

Pilani Campus

Sponsored Research and Consultancy Division (SRCD)

<b>Essential Qualification:</b>	B.Tech. or M.Tech./M.Sc., from a reputed university/college, in Computer Science, Information Technology, Software Systems, Artificial Intelligence, Machine Learning, Data Science or in any allied areas (Mathematics/Statistics, Electrical/Electronics, Communications etc.) Desirable: UGC NET or GATE
<b>Fellowship:</b>	INR 35,000 per month (for all 3 years of the project). No HRA will be paid
<b>Registration for PhD.:</b>	If found suitable, Department Research Committee (DRC) may recommend selected candidates for admission to full-time PhD program at BITS, Pilani (Pilani Campus)

## How to Apply:

You can express your interest for the project @ <https://forms.gle/d94DCQJaSKquVDuNA>

Shortlisted candidates will be called for an interview. Mere possession of minimum qualification does not guarantee an invitation to the interview. Candidates will be shortlisted based on their merit and as per the requirements of the project. Interviews will be held in online mode.

**Application Deadline: 31<sup>st</sup> July 2022**

## Contact Person:

Prof. Navneet Goyal, Dept. of Computer Science  
goel@pilani.bits-pilani.ac.in

