

No.: Advt/ IIT/CSRC/24-25/54

Date:21-03-2025

**Applications are invited from eligible Indian nationals for ONE Junior Research Fellow posts in a sponsored project undertaken in the Department of ELECTRICAL ENGINEERING**

<b>Position</b>	<b><u>Junior Research Fellow</u></b>
<b>Essential Qualification</b>	B.E/B.Tech in ECE Engineering/relevant discipline with NET/GATE qualified with minimum CGPA 7 (or marks 70%) <i>Relaxation:</i> 6.5 CGPA or 65% for OBC/EWS 6.0 CGPA or 60% for SC/ST/PWD
<b>Desirable Qualification</b>	Knowledge of antenna design and signal processing. Knowledge of semiconductor devices will be an added advantage. Candidates with relevant master's or higher degrees.
<b>Project No.</b>	ELE2425004NHUBABHJ
<b>Research Area/ Project title</b>	Radar Detection and Positioning System Based on Microwave Spintronics Sensor
<b>Sponsoring Agency</b>	TIH NiF
<b>No. of Position</b>	1
<b>Monthly Salary</b>	37,000+HRA
<b>Principal Investigator</b>	Dr. Abhishek Kumar Jha
<b>Department/Centre</b>	Electrical Engineering
<b>Maximum Tenure of Assignment</b>	Initially for ONE year, with a possible extension of ONE year based on performance
<b>Desired Experience</b>	Beam-forming antenna design, Direction finding algorithm (MUSIC) OR, Semiconductor device fabrication
<b>Brief Project Description and Nature of the Work</b>	Radar signal detection and direction finding is a cutting-edge technology that is essential in modern warfare and civilian applications. Far-field electromagnetic signal gets weaker with the distance and hardly gets detected by the standard diode due to barrier potential equipped with a low-profile antenna. However, the spintronics device, which works on the electron's spin, can easily detect electromagnetic power if designed and biased properly. The candidate will work on state-of-the-art systems and design indigenous systems.
<b>Age Limit</b>	Not more than 30 years as of the last date of advertisement (relaxed for exceptional candidates)
<b>Last date application</b>	05-04-2025
<b>Application Link</b>	<a href="https://forms.gle/TSnj3kBtpUBdjsmFA">https://forms.gle/TSnj3kBtpUBdjsmFA</a>

Eligible candidates must attach a detailed CV specifying their Qualifications and Experience with scanned copies of marksheets and certificates from X class till date. A brief statement of purpose (Why they are interested in this project topic?) also to be attached with the application link.

The shortlisted candidates will be informed by Email only. Selection will be based on the qualification, experience, and in-person interview at IIT Tirupati. **No TA/DA shall be paid to candidates appearing for an interview online or offline.** The interview date will be notified to the shortlisted candidates by Email. For any queries send mail to [csrc\\_recruitment@iittp.ac.in](mailto:csrc_recruitment@iittp.ac.in)

IIT Tirupati also reserves the right to discontinue the position with 1 month notice if the performance is not satisfactory.

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