भारतीय प्रौद्योगिकी संस्थान तिरुपति
INDIAN INSTITUTE OF TECHNOLOGY TIRUPATI
CENTRE FOR
SPONSORED RESEARCH AND CONSULTANCY
Yerpedu – Venkatagiri Road, Yerpedu Post, Tirupati District, A.P – 517619

No.: Advt/ IITT/CSRC/24-25/54-1 **Date: 30-04-2025**

Applications are invited from eligible Indian nationals for ONE Project Associate post in a sponsored project undertaken in the Department of ELECTRICAL ENGINEERING

Position	**Project Associate**
Essential Qualification	B.E/B.Tech. in ECE Engineering/relevant discipline with minimum CGPA 8 (or marks 80%) *Relaxation*: 7.5 CGPA or 75% for OBC/EWS 7.0 CGPA or 70% for SC/ST/PWD
Desirable Qualification	Knowledge of Semiconductor & Microwave devices is essential. Candidates with relevant master's or higher degrees are preferred.
Project No.	ELE2425004NHUBABHJ
Research Area/ Project title	Radar Detection and Positioning System Based on Microwave Spintronics Sensor
Sponsoring Agency	TIH NiF
No. of Position	1
Monthly Salary	37,000+HRA
Principal Investigator	Dr. Abhishek Kumar Jha
Department/Centre	Electrical Engineering
Maximum Tenure of Assignment	Initially for ONE year, with a possible extension of ONE year based on performance
Desired Experience	Semiconductor device fabrication, Beam-forming antenna design, Direction finding algorithm (e.g., MUSIC)
Brief Project Description and Nature of the Work	Radar signal detection and direction finding are cutting-edge technologies that are essential in modern warfare and civilian applications. Far-field electromagnetic signal gets weaker with the distance and is hardly detected by the standard diode due to the 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 appropriately biased. The candidate will work on state-of-the-art systems and design indigenous systems.
Age Limit	Not more than 30 years as of the last date of advertisement (relaxed for exceptional candidates)
Last date for application	14-05-2025
Application Link	https://forms.gle/TSnj3kBtpUBdjsmFA

Eligible candidates must attach a detailed CV specifying their qualifications and experience, along with scanned copies of their mark sheets and certificates from X class to date. A brief statement of purpose (Why are they interested in this project topic?) is also attached to the application link. Essential qualifications will be relaxed for the outstanding candidate.

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

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