



Research Fellow Position under CREST funded project

Applications are invited for the position of **Research Fellow** in the **Department of Electrical and Electronics Engineering** at **BITS Pilani, K. K. Birla Goa Campus, Goa** for a CREST sponsored research project titled **“Low-Noise Adaptation of State-of-the-Art High-Speed Comparators Using Random Noise Cancellation Techniques and ML-Assisted Optimization”** (TOPS/12/25/105).

This position is applicable only to **Ph D aspirants**. Candidates should check the eligibility criteria and qualification process of the Ph D program of BITS Pilani(<http://www.bitsadmission.com/phmain.aspx>).

Principal Investigator: Dr. Ria Rashid [[Profile](#); [LinkedIn](#); [Google Scholar](#)]

Co-Principal Investigator: Mr. Komala Krishna K. [[LinkedIn](#); [Google Scholar](#)]

Broad Area of Research: Analog Circuit Design, High speed Comparators, VLSI

Scope of Work: The research fellow will work on the design, optimization, and silicon validation of low-noise, high-speed dynamic comparators for advanced ADCs and mixed-signal front ends. The project focuses on adapting recent high-performance comparator topologies and redesigning them for minimum input-referred random noise without compromising speed or energy efficiency. The student will experience the complete CMOS design fabrication test flow, including ML-assisted design-space optimization and post-silicon characterization in 65 nm and close interaction with industry collaborators in high-speed analog design.

Duration: As per BITS Pilani norms (<http://www.bitsadmission.com/phmain.aspx>)

Essential Qualification: Post Graduate or Graduate degree in EEE/ Electronics/ Communication/ Instrumentation or equivalent discipline from a recognized University. Gate score is not mandatory.

Desirable Qualification: Strong background in VLSI and analog circuit design. Knowledge of Cadence Virtuoso will be an added advantage.

Accommodation: Hostel accommodation will be provided subject to availability and will be governed by the rules and regulations of the Institute prevailing at the time of joining of the candidate.

Fellowship Amount (Rs.): ₹37,000 - ₹42,000 per month (based on the year of Ph D and performance)

How to Apply: Please apply with **CV and Cover letter** (showing alignment and justification with the roles/responsibilities/requirements) using this form

- <https://forms.gle/T93y3xGSrR8AHGAg6>
- Deadline: **28 February 2026**

