



**Birla Institute of Technology & Science, Pilani**  
K K Birla Goa Campus

## **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**

