

2025 EECMS Summer Internship Application Form

Main Supervisor	Dr. Himanshu Agrawal, Curtin University
Other supervisors (if applicable)	Prof. Goutam Das, Indian Institute of Technology (IIT) Kharagpur
Project Title	Quantum Key Distribution
Student location(s) for the project	Indian Institute of Technology, Kharagpur, India
Duration of project	Six weeks
Project Description	<p>The project invites undergraduate students from the Electrical, Electronic, Computer, and Mathematical Sciences (EECMS) department at Curtin University to explore networking aspect of key distribution using entanglement swapping in trusted repeater. The project will cover the fundamental principles of QKD, its protocols, and practical implementation. Students will study the theoretical aspects of QKD and simulate QKD protocols using quantum computing tools. This project aims to provide hands-on experience in quantum networking, fostering a deep understanding of secure quantum communication.</p>