





Application Deadline: 26th September 2025 | Joining: 2026 January

Applications are invited for a PhD position to work in an Indo-Australian BITS-RMIT joint Ph.D. program under the supervision of Prof. <u>Abhishek Sarkar</u> (Mechanical Engineering) & Prof. <u>Vasan Arunachalam</u>. (Civil Engineering), BITS-Pilani Hyderabad Campus, and Prof. <u>Alireza Bab-Hadiashar</u>, STEM, School of Engineering, Royal Melbourne Institute of Technology (RMIT), Australia.

The work involves designing a modular climbing mechanism adaptable to varying diameters, integrating advanced actuation, intelligent control algorithms, and multi-modal sensing for defect detection and navigation. A communication and monitoring interface will enable real-time visualization and data storage. The system will be validated through simulations, prototypes, and field trials.

Project Title	Development of an Intelligent Pipe-Climbing Robot for Pipeline Inspection
No of	1
Position	
Eligibility	Bachelor/Master's degree in Mechanical/ Robotics/ Mechatronics Engineering
	and relevant fields.
	Also, go through the website
	[https://bitspilaniedu.com/rmit/bitsrmitphdwebsite/ProjectsResearch.aspx?bitrmite]
	for minimum qualification requirement.
Desirable	• Applicants should have working knowledge and hands-on experience in
criteria	prototyping, robotics/mechatronics, embedded systems, and machine
	learning, with the ability to integrate these domains towards the design,
	control, and intelligent operation of robotic systems.
Highlights	Acquire an internationally recognized qualification from an Indian Institute
	of Eminence University and a top Australian university
	• BITS Pilani Ph.D. fellowship: INR 45,800/- per month for student with a
	higher degree of BITS Pilani or its equivalent; INR 42,800/- per month
	(during course work), INR 45,800/- per month (after coursework completion)
	for student with an integrated first degree of BITS Pilani or its equivalent
	• Receive a full RMIT tuition fee scholarship for the duration of your
	enrolment.
	Benefit from the combined expertise of two leading universities and access
	world-class research facilities in India and in Melbourne
	• Travel to Australia for up to one year of candidature and be supported by an
	Australian stipend for the duration of your time in Melbourne
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How to	Click on the Project id <u>BITS025F001461</u>
Apply	[https://bitspilaniedu.com/rmit/bitsrmitphdwebsite/ResearchProjectDetail.aspx?progCode=477]
	for a detailed description
	Step1: Click on the following link for applying: Application Portal
	[https://bitspilaniedu.com/rmit/bitsrmitphdwebsite/ProjectsResearch.aspx?bitrmite]
	Step2 : Select the project either with the Project id or the Title
	Step3: Register and fill the online application.

Place of work: BITS Pilani, Hyderabad Campus

For any query, send an e-mail to

Prof Abhishek Sarkar [abhisheks@hyderabad.bits-pilani.ac.in] & Prof Vasan Arunachalam [vasan@hyderabad.bits-pilani.ac.in]