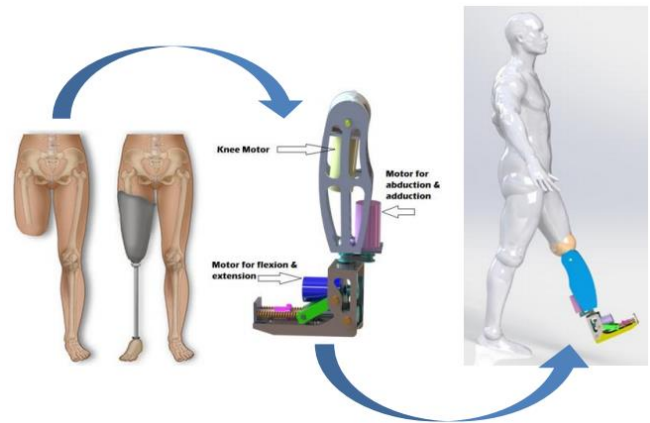


# Postgraduate Opportunity in Biorobotics

A postgraduate opportunity with a scholarship is available for a highly motivated and enthusiastic fulltime candidate to pursue **MSc / MPhil** degree under the project entitled “**Development of an Active Lower-Limb Prosthetic Device**” at the Department of Mechanical Engineering, University of Moratuwa.



## Objectives of the Project:

- Design and develop a three degree of freedom an active *transfemoral* prosthetic device that will generate similar motions of knee and ankle to be used for a lower limb amputee person.
- Evaluate and validate the effectiveness of motion generation of the prosthetic device.
- Develop a hybrid EMG-Torque/Force-IMU sensors based control method to robustly control the prosthetic device.
- Evaluate the effectiveness of the proposed control method with the prosthetic device by carrying out experiments.

## Eligibility:

Candidates who have a four year degree with first class or second class upper division in Mechanical / Biomedical / Mechatronics / Electronics / Electrical Engineering or any other relevant engineering field in a recognized university are encouraged to apply.

## Student Stipend and Funding:

Rs.40, 000/month + Teaching assistantship can be obtained based on the progress of the research (Total = about Rs. 50, 000/=)

Tuition fee: 70% waiver can be obtained based on the progress of the research.

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## Supervisors:

Dr. Thilina Lalitharatne, Department of Mechanical Engineering, University of Moratuwa

Dr. Ruwan Gopura, Department of Mechanical Engineering, University of Moratuwa

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