



PROJECT ANNOUNCEMENT
Fall 2025

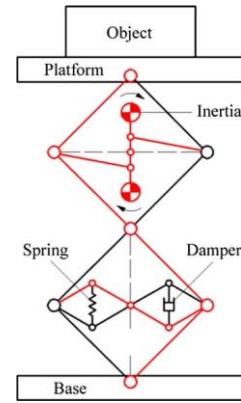
Title: A MODIFIED BIO-INSPIRED SYSTEM
FOR VIBRATION ISOLATION

Position Ref: MOBIO

Type: Individual

Status: New

Seat: 1 student



Project Description:

A vibration isolation system exists in the literature inspired by human walking. In this project we will modify the system and investigate the isolation performance of the modified system based on various parameter values.

Work Description:

- Literature survey.
- Setting up the equation of motion (EoM) for the modified system.
- Solving the nonlinear equation of motion.
- Comparison of the results with other isolation systems in the literature.
- Report writing.

Required Qualifications and Skills:

- Basic vibration knowledge.
- Appetite for and persistence in analytical and numerical work.
- MATLAB knowledge.
- The project will be on campus.

Related UN Sustainable Development Goals:

- No.9 Industry, innovation and infrastructure

Difficulty: high (X) medium () low ()

Time commitment: high (X) medium () low ()

Estimated expense: 0 TL