



Birla Institute of Technology & Science, Pilani

K K Birla Goa Campus, India

FULLY-FUNDED PhD POSITION • APPLY NOW

PhD-DRIVE Research Scholar Position

Deep-tech Research, Innovation, Value generation & Entrepreneurship

Applications are invited for a **fully-funded PhD position** under the **PhD-DRIVE (Deep-tech Research, Innovation, Value generation & Entrepreneurship) program**, School of Interdisciplinary Research and Entrepreneurship (SIRE), BITS Pilani, K. K. Birla Goa Campus. This is a unique opportunity to earn a doctorate **while building a real assistive-technology product and a start-up venture** around it.

PROJECT: Development of Thermally Efficient Prosthetic Liners with Phase-Change Materials for People with Lower-Limb Amputation

Why it matters: Up to 70% of prosthesis users suffer from excessive sweating and heat inside the socket, leading to skin infections and abandoned limbs. India has 100M+ people with diabetes and a rising traumatic-amputation burden, yet no affordable, comfortable liner exists. You will help design, model, prototype, and clinically validate a first-of-its-kind heat-mapped liner tuned for Indian conditions and take it to the market via start-up or technology licensing.

Position Details

Supervisor: [Prof. Ganesh M. Bapat](#)

Co-Supervisor: [Prof. Vadiraj Hemadri](#)

Duration: 4 years (full-time PhD program)

Fellowship: ₹55,000 – ₹60,000 per month (as per PhD-DRIVE norms), plus seed funding for prototyping and full incubation support.

Application deadline: 21st July 2026, 11:00 PM (IST)

Who Can Apply

Qualification: A Bachelor's degree in Engineering AND/OR a postgraduate degree (M.E./M.Tech./M.S.), with First Class, in Mechanical Engineering, Biomedical Engineering, or Biomechanics.

Required skills: Fundamentals of product design, applied mechanics, materials science, basic optimization and computational techniques, along with CAD modelling, and hands-on prototyping.

Desirable qualities:

- A passion for solving real problems through hands-on product development.
- An entrepreneurial mindset and a *never-say-die* attitude.
- Aspiration to build a sustainable venture out of the PhD topic. *Prior knowledge of biomechanics/prosthetics is optional*, what matters is the ambition to learn it.

What You Get

- Research training in the **cutting-edge field of biomechanics**, with excellent laboratory facilities in the BIOMADE Lab & Thermal Systems Lab.
- A genuine path to **start-up creation and technology commercialization** in the project domain, mentored through BITS Pilani's strong entrepreneurial ecosystem.
- Seed funding for prototyping and structured incubation support.
- Hostel accommodation, subject to availability and institute rules.

How to Apply

Submit your application via the online form: <https://forms.gle/8gYQCSfcupufuUVA9>