

“Postdoctoral Position” on “Stem Cell Engineering and Regenerative Medicine”

Department of Biomedical Engineering, IIT Hyderabad

Stem Cell Engineering and Regenerative Medicine is an emerging and highly interdisciplinary research field requiring a multidisciplinary skill set. Regenerative or Tissue Engineering evolved from the field of biomaterials development and refers to combining biomaterials, cells, and biologically active molecules into functional tissues. Regenerative medicine aims to assemble functional constructs that restore, maintain, or improve damaged tissues or whole organs. Our laboratory works at the interface of materials engineering (including FDA-approved polymeric Biomaterials) and stem cell biology to develop next-generation approaches in generating tissues such as bone, cartilage, heart and skin, etc by understanding the biomaterials-stem cells interface and stem cells' niche. We seek talented, motivated and passionate individuals, eager to learn multidisciplinary skill sets and ready to explore their talent/idea/experience in improving human health care, and to join our efforts in a leading-edge translation research on **“Stem Cell Engineering and Regenerative Medicine”**. The candidate will get a highly interdisciplinary work environment to perform cutting-edge research and high-impact publications.

Essential Qualifications and Work Experience: PhD in Biotechnology, Microbiology, Nanobiotechnology, Bioengineering, Nanotechnology, any other related interdisciplinary engineering and/or science, from a reputed institute with substantial sound knowledge and experience in molecular biology techniques and a publication record from PhD work and related work.

- **Experience on cell culture, primary cell (e.g., stem cells) culture, and materials-stem cell/cell interaction studies**
- **Experience on Stem Cells culture and maintenance preferred**
- **Experience in biomaterials fabrication and their biological evaluation, in vitro and in vivo**
- **Sound knowledge and interest in cell-materials interaction, stem cell biology, proficient in molecular biological techniques such as quantitative PCR, RTPCR, ELISA, Western Blotting and immunoassay, etc.**
- **In vivo (small animal) experiment planning and execution**
- **Proficient in designing and executing experiments, interpretation of research results, writing reports and manuscripts, and managing and guiding PhD/JRF/SRF candidates**

Duration of project: Up to 3 years. The initial appointment will be for 6 months. Based on performance, the appointment could be extended till the end of the project.

Emoluments: INR 75,000 consolidated salary per month, with a Possible increment in the 3rd Year based on performance.

How to Apply: Eligible candidates should apply with their CV via email to enarm@bme.iith.ac.in by 9th Nov, 2025, with the subject marked as **“Postdoctoral Position on Stem Cell Engineering and Regenerative Medicine”**. The application will be accepted till a suitable candidate is found. Candidates who are short-listed for the interview based on merit and experience will be informed via email.

Preference: This will be given to candidates who have enough experience in the above-mentioned field and are committed to working on the project for an extended time, preferably at least 1.5 years.