

Postdoctoral Position on “Novel Biomaterials for Drug Delivery and Tissue Engineering”

Department of Biomedical Engineering, IIT Hyderabad

We invite applications for a Postdoctoral Research Position in *Novel Biomaterials for Drug Delivery and Tissue Engineering*. The successful candidate will work on the design and synthesis of innovative polymeric and biopolymer-based systems to address critical challenges in therapeutic delivery and regenerative medicine. Candidates with a strong background in organic synthesis, chemical modification of biopolymers, or development of functional polymers for controlled release and tissue repair are encouraged to apply. This position offers a unique opportunity to contribute to cutting-edge translational research to create next-generation biomaterials with clinical impact and commercial potential.

We are seeking talented, motivated and passionate individuals, eager to learn a multidisciplinary skill set and ready to explore their talent/idea/experience in the improvement of human health care, and to join our efforts in a leading-edge translation research on “**Novel Biomaterials for Drug Delivery and Tissue Engineering**”. 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 Chemistry, Polymer Science, Materials Science, or related discipline with a strong focus on organic synthesis or polymer chemistry.

- Proven expertise in designing, synthesising, or modifying biopolymers, natural polymers, or synthetic polymers for biomedical applications.
- Hands-on experience in drug delivery systems, including nanoparticle formulation, hydrogel development, microneedles, scaffolds, or controlled-release platforms.
- Strong background in chemical characterisation techniques such as NMR, FTIR, GPC, DSC, TGA, HPLC, LC-MS, and rheology.
- Demonstrated research experience through high-impact publications or patents in biomaterials, drug delivery, or tissue engineering.
- Ability to independently design experiments, analyze data, and drive research objectives in a multidisciplinary environment.
- Experience with cell-material interaction studies or tissue regeneration models (desirable but not mandatory).
- **Proficiency in writing reports and manuscripts, managing and working in group is necessary**

Duration of project: 2 years. The appointment will be temporary. Based on performance, the appointment could be extended till the end of the project.

Emoluments: INR 75,000 per month consolidated salary.

How to Apply: Eligible candidates should apply with their CV via email to “enarm@bme.iith.ac.in” by 9th November, 2025, with the subject marked as “Postdoctoral Position on **Novel Biomaterials for Drug Delivery and Tissue Engineering**”. Application will be accepted till the finding suitable candidate. Candidates who are short-listed for the interview based on merit and experience will be informed via email.

Preference: will be given to the candidates with enough experience in the above-mentioned work and committed to working on the project for longer, preferably **at least 1.5 years**.