भारतीय प्रौद्योगिकी संस्थान हैदराबाद
Indian Institute of Technology Hyderabad

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Kandi – 502 285, Sanga Reddy, Telangana, INDIA
Phone: (040) 2301 6033; Fax: (040) 2301 6003 /32

"Novel Biomaterials Based Chronic Wound Healing" (JRF/SRF) @ Department of Biomedical Engineering, IIT Hyderabad

Recalcitrant chronic wound (**diabetic foot, venous, arterial, neurotrophic and pressure ulcer)** are a growing public health concern. With the expanding elderly population and increasing incidence of diabetes, localized management of these wounds is becoming a multi-billion-dollar enterprise. Current treatments options and management of the chronic wound has limited success, required longer in-patient care, and often expensive and beyond the limit of the majority of the population in India.
Our laboratory (eNARM Lab, PI: Jyotsnendu Giri) at IIT Hyderabad (with collaboration with hospital) leading by highly energetic interdisciplinary peoples, is working at the interface between materials and biology to develop next-generation approaches for cancer chronic wound healing. We are seeking talented, motivated and passionate individuals (2 no) to join in our efforts for cutting-age research on **"Novel biomaterials for chronic wound healing".** The candidate will get highly interdisciplinary work environment to perform cutting age research. The candidate will closely work with collaborators from Hospital in Hyderabad.

Essential Qualification: M Tech, M.S, M.Sc. Chemistry/Pharmacy/ Material Science/Biomedical Egg/Nanotechnology/ Biochemistry with first division or equivalent mark from reputed institutes with relevant experience (2-3 years**). Science degree holder should qualify NET or equivalent examination.**

Work Experience:

- Experience on Biomaterials processing or scaffold fabrication particularly polymers based for tissue engineering application
- Polymer synthesis and modification (optional), Polymer blending, Biomaterials fabrication
- Basic Knowledge on Physical, Organic Chemistry and solvent chemistry, worked with Biopolymers, Basic organic synthesis,
- Eager to learn new interdisciplinary research and technique related to the research
- **Biology (Optional):** Basic knowledge in Biology, if not, then eager to learn. Cell and culture and different biochemical assays.

- **Further Technical Information:** Candidate may contact the Principal Investigator. Dr. Jyotsnendu Giri, Email: enarm@bm.iith.ac.in

Duration of project: Two to Five years (Based on the funding). The appointment will be on temporary basis for a period of six months. Based on performance in the initial period, the appointment could be extended till the end of project. **Candidate may have strong interest**

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to pursue PhD. Depending on the performance; candidate will be offered to continue this work for PhD.

Emoluments: Will be decided based on the candidate qualification and experience.

How to Apply: Eligible candidates should apply with their CV via email to enarm@bm.iith.ac.in on or **before 2nd July, 2020,** with the subject marked as "Research Assistant Position on Wound Healing". Candidate should provide short justification note to support his/her candidature for this project. Candidates will be short listed for the interview based on merit and experience will be informed via email.

Preference: will be given to the candidates having **relevant experience on the above-mentioned work** and also **CSIR/UGC/NET holder with strong interest on this research field** also given priority as well.