

Job Description- Research Assistant Professor (Tissue engineering)

The Division of Medical Research at SRM Medical Collage Hospital and Research Center is looking for bright and enterprising Assistant Professors, with good interpersonal skills, in the field of Tissue Engineering.

Requirements:

- Candidates must have an MD or PhD degree with post-doctoral experience in the interdisciplinary field of Biomedical Sciences or other relevant field.
- Extensive skill, knowledge, and experience in the field of tissue engineering.
- Good oral and written communication skills
- Strong organizational, analytical and reasoning skills
- Ability to work well and flexibly i.e. autonomously, in small teams, and with a wide range of varying stakeholders
- Ability to see the big picture, whilst still maintaining a focus on detail and implementation. Strong leadership and mentoring skills

The main responsibility of the research Assistant Professor will be to increase the research output of SRM Medical Health Sciences (MHS). They will also help SRM Institute of Science and Technology build successful industrial collaborations that will cater to translational research with community outreach.

Following are the key **roles and responsibilities** of the Assistant Professor:

1. To collect, manage, and study biological, biochemical and molecular data.
2. To conduct research in the field of biomaterials and tissue engineering, which includes synthesis and characterization of biocompatible polymers, hydrogels, electrospun microfibers, and metal scaffolds for a variety of applications.
3. To develop heterogeneous bioprints for 3D bioprinting and 3D cell culture, development of biomaterials with applications in regenerative medicine, drug delivery, and tissue engineering applications.
4. Experience in fabrication methods including hydrogel synthesis and characterization, vascularised scaffolds, 3D bioprinting, use of microfluidics, lab-on-a chip technology and animal experiments is desirable.
5. To use additive manufacturing techniques to build tissues and organs to be used as drug testing models.
6. To apply for and manage multiple Institutional Grants
7. To contribute in the development of research protocols and budget
8. To liaison with clinicians to analyze problems, determine solutions as well as help them in developing clinical projects.
9. To undertake bench-to-bedside research, education and training, and clinical practice that improves the health and well-being of patients and the public.
10. The candidate should take up administrative responsibilities, including but not limited to, setting up laboratories, handling vendors, managing inventories and coordinating with other departments to improve the University's research output.
11. To communicate research results through conference presentations, scientific publications, or project reports.
12. To instruct and help others in techniques commonly used in tissue engineering.
13. To keep abreast of new developments in the field by reading scientific literature and attending professional conferences.