

Job Description- Research Assistant Professor (Developmental biologist)

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 developmental biology.

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 stem cell and/or developmental biology.
- 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 data at the molecular level.
2. To work with in vivo developmental models like, zebra fish, drosophila & *C.elegans*.
3. To generate, culture and differentiate embryonic stem cells as in vitro models.
4. To have a strong expertise in developmental processes related to stem cell development, tissue growth and morphogenesis, differentiation, genomics and epigenomics.
5. To understand the fundamental mechanisms of cell differentiation and organogenesis, and elucidate the developmental basis of human birth defects
6. To perform high-throughput workflows, be proficient in viral delivery methods as well as genome editing tools in mammalian cells (CRISPR-Cas)
7. To apply for and manage multiple Institutional Grants
8. To contribute in the development of research protocols and budgets.
9. To liaison with clinicians to analyze problems, determine solutions as well as help them in developing clinical projects.
10. To undertake bench-to-bedside research, education and training, and clinical practice that improves the health and well-being of patients and the public.
11. 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.
12. To communicate research results through conference presentations, scientific publications, or project reports.
13. To instruct and help others in techniques commonly used in the field of developmental biology.
14. To keep abreast of new developments in the field by reading scientific literature and attending professional conferences.