

Job Description- Research Assistant Professor (Cardiovascular Biology)

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 Cardiovascular 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 cardiovascular 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 and biochemical data at the molecular level.
2. To design *in vitro* and *in vivo* model systems for cardiovascular diseases.
3. To develop and implement CRISPR based genetic tools to manipulate gene expression and interrogate the link between the gene and a particular function.
4. To develop novel molecular imaging techniques for cardiovascular inflammation, remodelling and fibrosis in animal as well as human studies.
5. To establish stem cell derived cultures, co-culture models and 3D organoid cultures systems for atherosclerosis and cardiovascular diseases.
6. To apply for Institutional Grants to nodal agencies of Government of India.
7. To contribute in the development of research protocols and budget
8. To liaison with cardiologists and other 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 manage multiple projects at once
13. To instruct and help others in techniques commonly used in the field of cardiovascular biology.
14. To keep abreast of new developments in the field by reading scientific literature and attending professional conferences.