

Job Description- Research Assistant Professor (*In Vivo* Research and Zebrafish modeling)

The Division of Medical Research at SRM Medical Collage Hospital and Research Center has an open position for the role of Assistant Professor. This role is primarily focused on the development of zebra fish research models, which is a pivotal part of the department's ongoing research. This presents a thrilling opportunity for scientists who are eager to make significant contributions in the area of both basic and pre-clinical research.

The ideal candidate for this position will possess the following qualifications and experience:

- An advanced degree such as animal science or MD or PhD degree in a relevant field of study such as biology, pharmacology, or medical sciences.
- Extensive experience and skill in the field of aquatic animal biology and developing and working with zebrafish models.
- Use established computer database to keep track of transgenic fish colonies.
- Capable of developing and implementing genetic tools to manipulate gene expression and investigate gene function. The ability to create knock-in/knock-out zebrafish models that are gene and cell-type specific and demonstrate very comprehensive technical knowledge of finding off-target gene deletions.
- Perform microinjections, fluorescent screening, finclipping, cryopreservation & IVF.
- Train Aquatics staff and researchers on microinjections, fluorescent screening, fin clipping, cryopreservation, and IVF.
- Work closely with labs and other shared resources on the development of materials used for gene modifications.
- Interface with labs and other shared resources to troubleshoot challenges with successful generation and screening of genetically modified Zebrafish models.
- Specific activities include management of a zebrafish facility (fish feeding, water quality control, equipment maintenance, and supervising student and contingent employees). Help orient and train new staff or students.
- Ability to communicate effectively both written and orally in English.
- A high level of self-initiative and flexibility is required, i.e. the ability to work autonomously, in small teams, and with a wide range of stakeholders.
- The candidate is also expected to take up administrative responsibilities, including but not limited to, setting up laboratories, handling vendors, managing inventories and coordinating with other departments in order to improve the University's research output.
- To be able to apply for Institutional Grants to Government of India nodal agencies.
- Read scientific literature and attend professional conferences to stay up to date on recent developments in the field. Further, the successful candidate can communicate research results through conference presentations, scientific publications, or project reports.

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.