

Tata Institute for Genetics and Society (TIGS), Bangalore

About TIGS

TIGS, founded in 2017, is a non-profit research institute that aspires to develop solutions to challenges in human health and agriculture. TIGS is a unique initiative to support applications of cutting-edge science and technology in genetics and genomics to solve societal problems of the country. The most significant challenges that impede the achievement of health equity and nutrition security for all of India's population require systematic evidence-based scientific advancements and technological solutions. Research programs at TIGS are focused on three broad areas: Infectious Diseases, Rare Genetic Disorders, and Crop Improvement.

TIGS is a program driven research institute with a focus on solving pressing societal challenges. We are looking for scientists at different levels for research programs and technology platforms at TIGS. If you are interested in making a difference in science with high societal impact and have the necessary credentials, please apply for a suitable vacancy.

Required Qualifications:

- PhD in the related discipline
- Post-doctoral experience in relevant field
- Proven record of research (publications)
- Highly motivated, committed, and able to take initiatives
- Expected to come up with new ideas
- Excellent communication skills

Salary:

Competitive

Duration:

Regularization after successful completion of probation period of at least one year.

How to apply:

- If interested, please send the following documents by email to: jobs@tigs.res.in
- i. Cover letter defining your research plan in line with our vision (one page)
 - ii. CV with email, phone, and contact information of 3 referees

Positions open		
Position, area of research and desired expertise	About the position	Roles and Responsibilities
<p>1. Scientists (crop improvement) Experience in one or more of the following areas - crop improvement strategies, pest control.</p>	<p>Using mutation breeding and new genetic technologies such as targeted genome editing by CRISPR/Cas, we are developing crops with desired features that are resistant to biotic and abiotic stresses. The major focus is to improve diverse agronomic features and deliver transgene-free, improved crop varieties through genome editing and mutation breeding. We are looking for dynamic and self-motivated person with experience and interest in plant molecular biology, Genetics, and plant breeding.</p>	<p>Designing and conducting experiments related to crop improvement. Ability to address technical challenges and should interact with internal teams and external collaborators for the successful implementation of the project.</p>
<p>2. Scientists (Antimicrobial Resistance) Experience in one or more of the following areas - AMR, industry experience with innovative techniques</p>	<p>Antimicrobial resistance (AMR) is a neglected global crisis that requires urgent attention and action. Based on recent estimates, antimicrobial resistance killed (about 1.3 million) more people than malaria and AIDS in 2019. Therefore, we are focusing on increased AMR surveillance and working to find sustainable solutions which can be integrated into the healthcare system.</p>	<p>Establish a sustainable AMR surveillance and monitoring system. This position may require significant amount of travelling to meet stakeholders and network across different locations in India.</p>
<p>3. Scientists (Rare Genetic Disorders) Experience in one or more of the following areas - human genome analysis, molecular biology, stem cell biology</p>	<p>The Rare Genetic Disorders program focuses on genetic diseases that affect a small percentage of the population and do not have appropriate therapeutic or management options. Our efforts are directed towards developing accessible diagnostic assays that can be applicable to screening carriers of particular genetic disease traits and cost-effective therapeutic strategies.</p>	<p>Participate in ongoing activities, take new initiatives to strengthen the diagnostics, screening, genome analysis, therapeutics areas focused on rare genetic disorders</p>
<p>4. Scientists (technology platform) Experience in one or more of the following areas - cell culture, DNA/RNA/protein techniques, innovative technologies, drug development, insect biology, bioactives</p>	<p>TIGS has also been working towards establishing technology platforms that facilitate cutting-edge research to solve societal problems. The institute houses a state-of-the-art, world-class insectary that supports research on mosquito biology, disease transmission, parasite interactions, population dynamics, etc. We are building platforms for protein therapeutics, mRNA and cell-based therapeutics, and DNA/RNA based diagnostics development.</p>	<p>Managing technology platforms, developing innovative methodologies, use combination of technologies to develop affordable solutions to the current problems of the society.</p>