

ROLLING ADVT. NO. 03-01
Web. Ref.: RollingAdvtMar2201

1. **Project titled:** “Iron Deficiency Anemia Solutions via Microbial”

Project Code: MLP-0039.

Position: Senior Project Associate = 01

Essential Qualification: (i) Master’s Degree in Natural or Agricultural Sciences/ MVSc or bachelor’s degree in Engineering or Technology or Medicine from a recognized University or equivalent; and

(ii) 4 years experience in Research and Development in Industrial and Academic Institutions or Science and Technology Organisations and Scientific activities and services.

OR

Doctoral Degree in Science/ Engineering/ Technology/ Pharma/ MD/ MS from a recognized University or equivalent

Desirable: M.Sc. Biotechnology/Animal Biotechnology with at least three years hands on research experience in the following areas:-

1. Development of various iron deficiency and other metabolic disorder models.
2. Experience in; experimental handling of small animals for feeding, nebulization & gavaging.
3. Assessment of Iron uptake by cells using Radiolabelled Isotope and fluorescence indicators.
4. Experience in animal tissue culture, maintenance of cell lines, cryo preservation. Isolation of primary cells including hepatocytes, peritoneal and splenic lymphocytes & macrophages, pancreatic cells, bone marrow cells and enterocytes.
5. Extensive experience of working in a BSL-3 containment laboratory. Extensive experience in; handling of pathogenic strains of tuberculosis and pathogenic viruses, including culture & preservation. Quantification of viral titer by RT-PCR. Experience of working with bacterial pathogen infected mammalian cells in BSL-3 containment.
6. Generation of mice tumor model using cancer cell lines. neutralization assay by using pseudovirus particles.
7. Hands on experience in; collecting, analyzing & presenting data, using flowcytometer, confocal and electron microscopy. Data analysis by Cell Quest Pro, Diva and Flowjo Software’s

8. Hands on experience with general laboratory experiments involving use of; ultracentrifuge, Real time PCR, SDS PAGE, Western Blotting, affinity chromatography and intermolecular affinity analysis, Isothermal Calorimetry (ITC), Isolation of genomic DNA & Plasmids.

9. Fluorescence based Receptor-Ligand kinetics assays like Binding and Internalization Kinetics, Recycling kinetics with mammalian cell lines and detailed kinetics analysis.

10. Experience in using Graph-pad Prism, Sigma Plot, Origin and other statistical analysis software's.

Upper Age limit (years) - 40

Monthly Emoluments: (i) Rs. 42,000/- +HRA

CONTROLLER OF ADMINISTRATION