

# Sr Laboratory Technician (Research)

## Opportunity at a Glance

The candidate will apply their experience of scientific, laboratory settings to support the growing research activities in the RUSVM Research Laboratories. This position is critical to the RUSVM strategic plan priorities.

## JOB FUNCTIONS

### Responsibilities

- The successful applicant will ideally have experience in microbiology, serology and molecular biology and must 1) be able to perform routine and standardized biological and biochemical examinations; 2) have the capability to learn and perform specialized analytical examinations and procedures. The senior laboratory technician will be required to perform any additional work related to the various laboratory disciplines. The individual must be willing to work safely with potentially pathogenic organisms and materials as well as toxic, volatile, and corrosive chemicals and potentially carcinogenic substances. The successful candidate will ideally have some teaching experience and be able to communicate effectively with the professional team and graduate students at RUSVM.
- Bench Duties: Candidates will have skills in several of the following areas with the ability to specialize in one or more areas.
  - Cell culture: Have experience in performing cell cultures or have knowledge about performing cell cultures and various technique related to cell culture. Should be comfortable working with liquid nitrogen.
  - Parasitology: Conduct routine fecal examination for suspect fecal parasite infection. Fecal analysis includes but is not limited to the following, being able to perform a fecal flotation, McMaster's quantitative method, fecal culture, Baermann technique, identification of third stage nematode larvae, wet mount, and fecal occult blood test. Whole blood analysis includes modified Knott's test, wet mount for microfilariae and any additional hemoparasites. Be competent in identifying parasites on skin scrapings, ear swabs and cellophane tape submissions.
  - Microbiology: Under supervision, perform routine standardized biological, microbiological, and biochemical examinations and analyses. Prepare media which includes sterilization, pouring of plates and tubes. Receiving and processing of samples which require a working knowledge of aseptic/sterile techniques, understanding of the use and plating to the various agar media employed within the microbiology section, staining procedures, culture and sensitivity, and microscopy. Be able to prepare the necessary laboratory reagents under appropriate supervision. Additional tasks include cleaning, washing and regular maintenance of laboratory instruments and equipment. Ensure that the laboratory is kept clean, organized, and well maintained. This includes but is not limited to sterilization and proper disposal of waste material. Maintaining regular inventory of basic reagents and supplies; and informing the lab director, manager and/or professor when additional supplies are needed.
- Serology: Be able to perform Snap and ELISA tests for antibody detection: Hormones, Cytokine. Perform IFA (Immuno Florescence Assay), uses florescence microscope, perform staining techniques, flow cytometry, multiplex assay and electroporation assays.
- Molecular Biology: Perform both real-time and conventional PCR (Polymerase Chain Reaction), analyze PCR data. Perform Gel Electrophoresis, DNA and RNA extraction, Reconstitute primers and probes. Have knowledge of DNA replication, Transcription, and translation. Perform DNA cloning and transfection of cells.

- Research: Conduct sample analyses in any of the above or novel disciplines. Be capable of learning new techniques and new analyzer methodologies. Give meticulous attention to data recording. Perform high-quality technical procedures in state-of-the-art molecular techniques. Additional responsibilities may include the preparation of laboratory reagents for hematology and blood chemistry analyses, urine and fecal examinations; cleaning, washing and regular maintenance of laboratory instruments and equipment; ensuring that the laboratory is kept clean, organized and well maintained; performing regular inventory of basic reagents and supplies and advising the technical research lead, laboratory director and/or faculty investigator of supplies required to be ordered. Catalogue, freeze and label all serum samples. The technician will be required to assist the postgraduate students in their laboratory workups and to follow good laboratory practice Create purchase orders for researchers and lab follow up on order. Organize and perform bio-safety training from students, faculty, staff, and visiting researchers.
- Be capable of mentoring students who are involved in research projects, assisting them, and aiding them in any of the above-described techniques.
- Completes other duties as assigned.

## Required for All Jobs

- Performs other duties as assigned
- Complies with all policies and standards

## QUALIFICATIONS

### Education

Education Level	Education Details	Required/Preferred	
Master's Degree	combined with Additional years of experience	Required	or
Bachelor's Degree		Required	

### Licenses and Certifications

Licenses/Certifications	Licenses/Certification Details	Time Frame	Required/Preferred	

### Work Experience

Minimum Experience	Experience Details	Required/Preferred	
5	years' experience	Preferred	

### Knowledge, Skills, and Abilities

#### KSAs

Good knowledge in Microsoft Office, Windows operating systems and database applications.

Background in science/biology - Be capable of learning new techniques and new analyzer methodologies.

Proven ability to communicate professionally in a corporate veterinary medical environment.

Flexibility to work weekends and holidays.

Prior lab experience.

Be comfortable working with students, staff, and faculty from various backgrounds.