

College of Human Medicine
Department of Translational Science and Molecular Medicine
Research Assistant I

Position end date: Two years from date of hire.

Job Summary: The laboratory technician will be responsible for managing the day-to-day activities of a research lab, including *in vivo* and *in vitro* experimental work, maintaining the lab, purchasing and preparing lab reagents. This position requires participation in project coordination, experimental design, data collection, and data analysis/reporting. Experimental laboratory skills should include DNA cloning and genotyping techniques, western blotting, ELISA, immunohistochemistry, cell culture, recombinant protein production and/or mass spectrometry-based proteomics; *in vivo* work experience behavioral testing and general animal husbandry.

This position is located at 333 Bostwick Ave NE, Grand Rapids, MI.

Required Education/Experience/Skills: Knowledge equivalent to that which normally would be acquired by completing a four-year college degree program in the specific field of research employment or science fields such as biology, chemistry, molecular biology, biochemistry, neuroscience or an equivalent combination of education and experience. One to three years of related and progressively more responsible or expansive work experience in overseeing research projects and laboratory operations, operating and maintaining a variety of laboratory equipment; standard laboratory procedures and safety requirements and performing analytical and research techniques; sterile technique; preparation of reagents; meticulous maintenance of scientific notes; experience with word processing and spreadsheet programs, ability to independently utilize web resources for method development.

Desired Education/Experience/Skills: Experience with quantitative analysis techniques such as mass spectrometry-based proteomics, western blotting, ELISA, DNA cloning and qPCR are highly desired. Understanding or experience in mouse handling and surgery, cell culture maintenance and method development, post-mortem tissue analyses (e.g. histology and proteomics), and microscopy (e.g. bright field and fluorescence) are also desired. Also desired are applicants who have prior experience in neuroscience and/or cell and molecular biology laboratories in the academia or industry. Must interact and communicate well with others, must be able to work independently, as well as in a group.

Description of Job Duties:

80% Research Activities

Coordinates and participates in all aspects of experiments, including tissue extraction and protein sample preparation, post-mortem analyses, and *in vitro* experimental work. This includes, mass spectrometry-based proteomics, western blotting, ELISA, DNA

cloning, qPCR, small animal handling, cell culture maintenance and method development, post-mortem tissue analyses (e.g. proteomics and histology), and microscopy (e.g. bright field and fluorescence).

20% Laboratory Management

Plans and coordinates the logistics for a research facility.

Oversees day-to-day operations including: supervising maintenance and functioning of lab machinery, purchasing and ordering of reagents and utilities and laboratory safety.

Develop work performance standards, schedules, develop priorities, and provide technical expertise as requested.

Application process

All interested individual are required to visit the MSU Job page to apply for this position. The link for the available Research Assistant I is:

<https://jobs.msu.edu/applicants/jsp/shared/frameset/Frameset.jsp?time=1411413046054>

Posting number: 0123

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