MASSACHUSETTS GENERAL HOSPITAL

GENERAL SUMMARY/ OVERVIEW STATEMENT:
The Research Laboratory Technician I is a full-time position, and the primary responsibility is to assist in ongoing research studies under the supervision of a Principal Investigator. This includes collection of and accurate recording of procedures and results, maintenance of databases used in the lab, ordering necessary reagents to conduct experiments, and participation in joint upkeep of the lab. This position requires a person who has Bachelor of Science degree in molecular/cell biology, biochemistry or a related field, pays attention to details, is capable of working independently under close supervision after initial training, possesses good verbal and written communication skills, and works well as part of a team. Work is reviewed regularly with the Principal Investigator who is available to troubleshoot problems. Must be able to perform multiple tasks independently. Technician II requires one year of experience.

PRINCIPAL DUTIES AND RESPONSIBILITIES:

- Maintains mouse colonies for ongoing projects in the Endocrine Unit. Coordinates matings, performs tagging of mice, and genotyping. Harvest, process, and analyze tissue samples.
- Maintains information in databases for mice and coordinates animal transfers.
- Responsible for ordering common laboratory reagents and other supplies and for assuring that supply levels in the lab are adequate. Prepares materials for shipping, assuring compliance with regulations for biological samples.
- Operates moderately complex equipment including microscopes, centrifuges, autoclave, spectrophotometers, PCR machines, quantitative real-time PCR machines.
- Techniques used will include: PCR, subcloning, plasmid preparations, maintenance of cell lines, dissection of mice for histological analysis, sectioning of tissue samples, cell culture, Western blotting, immunohistochemistry, RNA analyses.
- Organizes and accurately maintains written records of experimental procedures and data collection. Data may be represented as graphs, charts, tables, illustrations, slides and narrative reports. Willing to learn to interpret data results and has a high degree of computer literacy.
- Aids in maintaining information in databases for plasmids, cells, antibodies, and primers and boxes in the fridge, -20 and -80 freezers.
- Performs basic design and modification of protocols. Executes protocols of non-routine experiments.
- Participates in upkeep of lab, performs basic maintenance on laboratory equipment (cleans, disassembles, stores, replaces worn parts) and reports equipment requiring advanced repair.
- Participates in and presents data at weekly lab meetings and journal clubs.
- Interacts well with others, assists in training laboratory personnel in lab techniques and procedures that have been acquired.
- Execute protocols of non-routine experiments
- Perform basic design and modification of protocols
- Prepare and present reports
- Organize and summarize acquired data, using scientific and statistical techniques.
- Organize and/or draft material for the preparation of research papers, manuscripts and other documents for publication and/or presentation.

SKILLS/ABILITIES/COMPETENCIES REQUIRED:

- Experience with basic laboratory techniques in the setting of a research experience or undergraduate biochemistry/molecular biology lab eg: sterile cell culture techniques, basic molecular biology techniques–such as plasmid purification, gel electrophoresis, and PCR. Ability to build upon these techniques, learning new ones as necessary, to conduct the research project.
- Ability to work independently.
- Excellent verbal and written communication skills
- Computer literacy
- Analytical skills and the ability to resolve technical problems
- Ability to interpret experimental results
- Ability to think logically

**EDUCATION:**
- BS/BA in biology, molecular biology, or biochemistry or related field.
- Must be self-motivated and able to work independently.

**WORKING CONDITIONS:**
- Duties will be performed onsite at the research laboratory. No direct patient contact will occur.
- Must be willing to work with mice.
- Work will be conducted over a forty-hour workweek.
- This position is currently funded through March 31, 2022 with possibility for extension.

**APPLICATION REQUIREMENTS:**
Please submit a Cover Letter, CV, and contact information of at least two references.
MGH Careers Website: [https://www.massgeneral.org/careers/apply](https://www.massgeneral.org/careers/apply)
Job ID# 3152790