

RESEARCH LABORATORY TECHNICIAN I
([Job# 3090379](#))

GENERAL SUMMARY:

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 biochemistry, molecular/cell biology or a related field, pays attention to details, is capable of working independently after training, possesses good verbal and written communication skills, and works well as part of a team.

PRINCIPAL DUTIES AND RESPONSIBILITIES:

Responsibilities comprise, but are not limited to:

- Maintains colonies of mice for ongoing projects in the Endocrine Unit. Coordinates matings and performs genotyping and sequence analysis of genes. Maintains information in databases for mice.
- 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, spectrophotometers, PCR machines, quantitative real-time PCR machines, and Lunar Piximus.
- Techniques used will include: PCR, analysis of bone mineral density, dissection of mice for histological analysis, isolation of primary cell cultures, in vitro differentiation of cells, Western blotting, skeletal preparations, and immunofluorescence microscopy.
- 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. Will learn to interpret data results. Has a high degree of computer literacy.
- Aids in maintaining information in databases for plasmids, cells, antibodies, and primers.
- 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.
- Will acquire skills to be able to work independently and as a team leader, assist in training new laboratory personnel in lab techniques and procedures. Can supervise other members of the team in performing new techniques.

QUALIFICATIONS:

- BS/BA in biology, molecular biology, microbiology, or biochemistry or related field.
- Must be self-motivated and able to work independently.
- Excellent verbal and written communication skills

SKILLS/ABILITIES/COMPETENCIES REQUIRED:

- Experience with sterile cell culture techniques, basic molecular biology techniques—such as plasmid purification, gel electrophoresis, and PCR. Ability to build upon these techniques, learning or helping to develop new ones as necessary, to conduct the research project.
- Basic proficiency in Word, Power point, Excel, and Internet searches is required.

WORKING CONDITIONS:

- Duties will be performed in a research laboratory. No direct patient contact will occur or be expected in the future.
- Must be willing to work with mice. Studies are directed at studying the effects of hormones and mineral ions on growth and skeletal development.
- Work will be conducted over a 40-hour workweek, but actual schedule may become flexible as experience is gained.

APPLICATION REQUIREMENTS:

Interested candidates should apply on the [MGH Careers Page](#) (Job# 3090379).

Please submit the following for consideration:

- Cover letter
- Curriculum vitae
- Contact information of at least 2 references