

Postdoctoral Fellow
SOM-MED-Renal General

Job Code: [1438]

Nature of Work

The candidate is expected to take a major role in multiple projects in the Weiser-Evans laboratory focusing on vascular biology. The major responsibility of the Postdoctoral Fellow position is to carry out all aspects of projects including animal procedures, including surgery, tissue harvest from these animals, and preparation for analysis, including immunohistochemistry, immunofluorescence staining, flow cytometry, cell culture, molecular biology and next-generation sequencing approaches. The candidate is expected to work in close association with technicians and graduate students in a supervisory role, including training in the use of equipment and procedures and overseeing the progress of experiments conducted by others. The candidate will be expected to present regular research-in-progress lectures to various groups within the University and to write postdoctoral fellowship grant applications.

Professional Field

Vascular Biology Research

Examples of Work Performed

The duties and responsibilities of the position include, but are not limited to:

- Transgenic mouse colony management and genotyping (5%)
- Perform surgery in mouse models of cardiovascular diseases (10%)
- Mouse sacrifice and tissue harvest (20%)
- Immunohistochemical and immunofluorescence staining (10%)
- Microscopic imaging, confocal imaging and image analysis (20%)
- Cell culture maintenance and in vitro experiments (5%)
- Single cell suspension preparation, flow cytometry and cell sorting (10%)
- Molecular and biochemical assays, such as western blotting, qPCR, molecular cloning. (10%)
- Bioinformatics analysis of next-generation sequencing data (10%)

Supervision Received

The Postdoctoral Fellow reports to the Principal Investigator, Dr. Mary Weiser-Evans.

Supervision Exercised

The Postdoctoral Fellow will not supervise other employees.

Minimum Qualifications.

- Education:
PhD, MD, or PhD/MD preferably in the cardiovascular or related field
- Experience:
Two years of experience managing genetic mouse colonies and animal handling/surgery.

Three years of experience with standard molecular and cellular biology microscopy and cell culture techniques.

Excellent communication skills using the English language.

The ability to work independently within the research laboratory.

Preferred Qualifications

Experience in vascular biology.

Proven experience and familiarity with confocal/fluorescent microscopy imaging.

Basic knowledge in bioinformatics data analysis.

Knowledge, Skills, and Abilities

To be successful in this position, candidates will need the following:

Team player with strong interpersonal skills.

Salary Offered or Salary Range

NIH range depending on years of postdoctoral experience

Does this position have fiscal responsibility?

No