



Office for Sponsored Staff and Volunteer Services

*Research Trainee Posting*

**Department:** Department of Pathology, Brigham and Women's Hospital/Harvard Medical School

**Location :** 221 Longwood Ave, 02115, Boston, MA.

**Contact Person:** Sunita R. Setlur, Ph.D.

**Scope of Internship:** A research laboratory at Brigham and Women's Hospital/Harvard medical school is seeking a highly motivated research trainee. This unpaid internship is an excellent opportunity for recent college graduates who are seeking to go onto graduate or medical school.

**About the Research:**

The research goals of the laboratory are:

- To understand the relationship between genome-wide genetic and epigenetic alterations in cancer progression.
- To characterize genetic and epigenetic pathways leading to ovarian cancer development and chemoresistance.

**As a student, you will:**

- be part of the excitement of being a researcher in a laboratory at Brigham and Women's Hospital, Harvard Medical School
- develop expertise in laboratory techniques and experimental design
- create future job and post-graduate opportunities through networking

**Training Goals:**

**The skills you will be trained on are:**

- Molecular biology techniques including conventional PCR, real time PCR and enzymatic reactions.
- Whole genome profiling analysis. The following are some of the procedures that will be performed:

- Isolation of DNA, miRNA or RNA from cell lines, tissue and serum samples for a given project.
- Quality control assessment using gel electrophoresis and spectrophotometry.
- Carry out data analysis and interpretations.
- Validation of array results using real time PCR.
- Tissues culture and in vitro experiments, such as transfections and nucleofections for target over-expression and siRNA knockdown using various cell lines. Learn to maintain clean and sterile working conditions to avoid cell culture contamination.

**Skill Set/Educational Requirements:**

Background theoretical knowledge in biology is desirable. Prior experience in biological sciences or with work in a laboratory setting is desirable, but not necessary.

**Does this position entail contact with blood or body or body fluids? Yes**

**Training Provided:** Sunita R. Setlur, Ph.D.

**Physical requirements :** NO

**Days/ Hours :** 8 h per day, 40hrs per week, 1 year

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