

INTERNSHIP DESCRIPTION

Department: Genomics

SUMMARY

Insight Genetics is dedicated to improving the lives of cancer patients through the design, development, and deployment of molecular diagnostic assays. Insight Genetics is seeking candidates for an internship in the Genomics Department. The internship will focus primarily on post-sequencing bioinformatics analysis and workflows. Individuals will gain exposure to clinical sequencing methods and a variety of laboratory procedures using established molecular techniques within the Insight Genetics laboratory. Individuals will work with staff to develop bioinformatics and scripting algorithms used for research efforts. The goals for the internship are as follows:

- Demonstrate knowledge of commonly used concepts, practices, and procedures within molecular diagnostics.
- Training in the area of Good Clinical Laboratory Practice (GCLP).
- Contribute to troubleshooting both clinical sequencing and bioinformatics workflows across a variety of genomics methodologies in the area of oncology.
- Complete a scripting project in support of a research workflow.

REQUIRED/PREFERRED KNOWLEDGE, SKILLS, & ABILITIES

Education

Required: B.S. or M.S. in a life science/technical area.

Preferred: Focus in Molecular Biology, Biochemistry, Genetics, Genomics.

Experience

Required: 2-3 years' experience in a molecular biology laboratory setting.

Special Knowledge/Skills

- Provide evidence of molecular biology skills including optimization of qPCR designs, RT-PCR, dye-terminator sequencing, or next-generation sequencing.
- Provide evidence of skills in processing nucleic acids for sequencing procedures, next-generation sequencing experience a plus.
- Provide evidence of software scripting language fluency: i.e. Python, SQL.
- Demonstrate competence with automation in the processing of nucleic acids for downstream molecular techniques.
- Capable of utilizing standard bioinformatics packages for sequencing analysis.