JOB DESCRIPTION
The UNIVERSITY of OKLAHOMA

Bioinformatics Analyst

Job Code: 6593

Salary Grade: S09

FLSA Status: Exempt

Job Family: Research

The following statements are designed to outline the general functions and typical responsibility levels associated with positions in this classification. They are not intended to serve as an exhaustive list of specific duties or requirements for individual positions assigned to this classification.

Job Responsibilities

Responsible for providing bioinformatics support for research projects, constructing and maintaining databases, and writing programs. Assists researchers by collecting data, keeping records, conducting literature and technical research, analyzing data, preparing reports, and working with other bioinformatics support personnel. Assists with experimental design and interpretation of results.

- Analyzes sequencing and proteomic data by importing, examining, and running statistical analyses and modeling algorithms. Analyzes data from a variety of experiments and platforms. Interprets, draws conclusions, and discusses results with principal investigator.
- Develops and maintains relational databases for high throughput data archiving and analysis. Assists with data deposition to public databases.
- Provides user training and assistance to researchers for various bioinformatics software analysis packages and users who wish to incorporate this expertise into their own laboratory.
- Responds to end-user problems and requests relating to genome/proteome data.
- Installs software packages related to bioinformatics.
- Continues to stay abreast of changing technologies, programming language developments, and new product items to support and enhance job performance.
- Performs various duties as needed to successfully fulfill the function of the position.

Minimum Requirements

Education:

- Bachelor¿s degree in a relevant field (e.g., Biology, Neuroscience, Biochemistry, or Microbiology with a computational focus; Computer Science with a biological focus; or a related discipline)

Experience:

Required: No experience required.

Required Certifications or Licenses:

None

Verification of education and licensure (if applicable) will be required if selected for hire.

Knowledge, Skills, and Abilities

- Knowledge of cell, molecular biology, and bioinformatics including but not limited to genome sequencing and protein analysis, and analysis of Next Generation Sequencing data (e.g., RNA-seq, ChIP-seq, exome sequencing).
- Knowledge of Unix, Linux, and Windows operating systems.
- Knowledge of MySQL databases and scripting languages such as Python, PHP, Java and Perl.
- Knowledge of genomic and/or proteomic data analyses, computer programming, database design and maintenance.
- Working knowledge of statistical analysis in a research environment.
- Ability to communicate verbally and in writing.
- Ability to work independently and as a team member.

Working Conditions

Physical:

Sitting for prolonged periods. Manual Dexterity. Speaking, listening, reaching and bending.

Environmental:

Standard Office Environment.

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