JOB DESCRIPTION
The UNIVERSITY of OKLAHOMA

Bioinformatics Analyst Senior

Job Code: 7568

Salary Grade: S11

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 developing and performing bioinformatics analysis to support research investigators in their projects primarily for the analysis of genomics, proteomics, metabolomics and lipidomics data sets. Engages with investigators during the experimental design phase to ensure resulting data sets properly address research inquires. Oversight of computing clusters, either on campus, at remote sites, or in the cloud.

* Analyzes large data sets for genomics, proteomics, metabolomics, and lipidomics projects including exporting data from the producing instruments to the computing cluster.
* Draws conclusions from data analysis and interfaces with investigators to discuss conclusions.
* Maintains data storage and databases for high throughput data archiving and analysis, as well as deposition of into public repositories.
* Trains investigators and students in various bioinformatics analysis approaches and software packages.
* Maintains computing clusters through installation of software packages related to bioinformatics analysis.
* Oversight and maintenance of access to computing clusters, either on site, off site, or in the cloud.
* Ensures computing equipment is sufficient to properly support the bioinformatics needs of investigators.
* Pursues continuing education to ensure the latest technologies, programming language developments, and approaches are implemented for support investigators 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)

Equivalency/Substitution: Will accept a Master's degree in a biological science with 48 months of experience OR a PhD in biological science with 24 months of experience.

Experience:

Required: 72 months of experience applying bioinformatics analysis to large data sets in the biomedical research field.

Required Certifications or Licenses:

- None

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

Knowledge, Skills, and Abilities

- Proficient in computer programming languages used for bioinformatics analysis such as R and Python or other applicable languages such as PHP, Java, and Perl as well as MySQL databases
- Knowledge of Unix, Linux, and Windows operating systems
- Well versed in bioinformatics and systems biology with knowledge in machine learning tools preferred
- Knowledge of database design and maintenance
- Excellent communication and presentation skills
- Ability to manage multiple projects at the same time
- Ability to work independently and as a team member
- Proven experience in fostering and maintaining relationships with investigators

Working Conditions

Physical: Sitting for prolonged periods. Manual dexterity. Speaking, listening, reaching and bending

Environmental: Standard office environment.

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