

# Research Bioinformatician I AGCT

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**Requisition #:** HRC0363701

## JOB SUMMARY:

Under close supervision, the Research Bioinformatician I performs general bioinformatics analysis and software support for projects involving in omics. The RBI will manage omic data including loading and querying data from database system and public repositories, and transform and merge multilevel omic data into user-friendly formats, assist in development, test, and maintenance of modular software pipelines, provide daily bioinformatics data analysis, preliminary interpretation of the data, and reports of the results for possible publications.

## ESSENTIAL JOB DUTIES AND RESPONSIBILITIES:

- Manage 'omic data including loading and querying data from database system and public repositories and transform and merge multi-level 'omic data into user-friendly formats, assist in development, test, and maintenance of modular software pipelines, provide daily bioinformatics data analysis, preliminary interpretation of the data, and reports of the results for possible publications.
- Manipulate large datasets from whole genome type scans, perform tests to determine biological significance, and visualize biologically meaningful data.
- Utilize a variety of basic analysis tools to determine things like genetic linkage, gene expression profiles, and molecular classifiers from data generated from microarrays, qPCR data, and Next Gen Sequencing.
- Assist in specific advanced collaborations with the Core Directors collaborative lead research as well as help to translate developmental pipelines for filtering and analyzing these large datasets.

Summarizes data analyses results in the form suitable as the basis for the first draft of written reports, and makes preliminary interpretations of the data.

- Manages data including loading and querying data from database systems, downloading omic data from public repositories, and transforming data to the necessary formats.
- Helps to identify, evaluate, and incorporate relevant algorithms and software pipelines by reviewing pertinent literatures in bioinformatics and computational biology.

## Education:

Master of Science Degree in Computational biology, or Bioinformatics, Biostatistics, Statistics or Master of Science/ Engineering in relevant fields (e.g. Biology with strong quantitative training). PhD preferred.

Certification/License: n/a

Minimum Experience:

- 0-3 years industry/academic experience directly related to bioinformatics in genomics (i.e. genomics, transcriptomics, epigenomics, resequencing analysis, etc.).
  - Expertise in developing and supporting NGS data processing and analysis pipeline
  - Proficiency in programming languages such as Perl, Python, R and Bash; experience with Java, C++, Javascript, HTML or PHP is preferred.
  - Proficiency in Unix/Linux, HPC environment is highly desirable.
  - Strong ability to act in a consultative manner with investigators on data analysis; and be able to work independently, manage priorities, and accurately produce results in a timely manner.
  - Have the ability to completely define an analytical approach for defined scientific questions.
  - outstanding oral and written communication skills.
- **Working Title:** Research Bioinformatician I AGCT
  - **Department:** Cancer Inst Shared Services
  - **Business Entity:** Service Lines & Ops
  - **City:** Los Angeles
  - **Job Category:** Academic/Research
  - **Job Specialty:** Bioinformatics
  - **Position Type:** Full-time
  - **Shift Length:** 8 hour shift
  - **Shift Type:** Day

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