

INFORMATION ANALYTICS

Research Data Analyst 1

School of Medicine, Stanford, California, United States

Apply for Job

Stanford University will be officially closed for regular business from Monday, December 20, 2021 through Friday, December 31, 2021. Normal operations resume on Monday, January 3, 2022.

You may continue to apply for opportunities during our winter closure. Since many of the University’s schools and administrative units are closed, your application may not be reviewed until normal operations resume on January 3, 2022, or shortly thereafter.

Thank you for your interest!

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Job Summary

DATE POSTED	SCHEDULE	JOB CODE	EMPLOYEE STATUS
3 days ago	Full-time	4751	Regular
GRADE	DEPARTMENT URL	REQUISITION ID	
G		92608	

Grade: G

INFORMATION ANALYTICS

Manager, Bioinformatics Group

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ETC. 1000%

The Division of Hematology/Oncology and Pulmonary Medicine in the Department of Pediatrics at Stanford University is seeking a Research Data Analyst (RDA1) to manage and analyze scientific data/information under the direction of the PI and partnership with project researchers for the Gawad and Kuo Labs. The labs are located in the same module within the new Biomedical Innovations Building on Stanford Campus. The candidate will engage in multidisciplinary projects in a dynamic research environment.

Duties include:

- Collect, manage and clean datasets.
- Employ new and existing tools to interpret, analyze, and visualize multivariate relationships in data.
- Create databases and reports, develop algorithms and statistical models, and perform statistical analyses appropriate to data and reporting requirements.
- Use system reports and analyses to identify potentially problematic data, make corrections, and determine root cause for data problems from input errors or inadequate field edits, and suggest possible solutions.
- Develop reports, charts, graphs and tables for use by investigators and for publication and presentation.
- Develop analytical methods for automated multiplexed image analysis, including background removal, denoising and batch normalization.
- Application of machine learning methods to multiplexed mass cytometry or imaging data and clinical data discriminate differences between patient groups
- Develop user-friendly tools to incorporate these algorithms to routine laboratory work.

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Senior Bioinformatician

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Associate Biocuration Scientist (3 Openings)

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- Use current deep learning approaches applied in the lab and develop new machine-learning approaches for identifying biological entities at different scales within multiplexed images, including cells, subcellular compartments and multi-cellular structures.
- Leverage existing tools for single cell analysis (i.e. SPADE, tSNE, SCAFFOLD, CITRUS) to summarize datasets, reduce dimensionality and identify differences between experimental groups. Modify these tools or develop new tools to include additional features available from imaging data, such as cell shape and size.
- Work collaboratively with postdoctoral researchers and other staff in the Gawad and Kuo labs to facilitate their data analysis.

** - Other duties may also be assigned*

QUALIFICATIONS: This section includes qualifications from the JDL and cannot be edited or changed. Add your desired qualifications and knowledge, skills and abilities as needed. This section can be pasted in the Taleo requisition in section number 3 - Description (External) under “Qualifications – External”.

DESIRED QUALIFICATIONS:

- Master’s degree in Mathematics, Statistics, Computer Science or related field.
- Research experience in computational biology desired; specifically, in analysis of high-throughput data.
- Experience in designing data analysis pipelines is an advantage.
- Knowledge and experience with sequencing analysis is preferred
- Experience with Python/Perl is preferred

- Proficiency working in a unix environment with bash scripting is required
- Some experience computing with R is required

EDUCATION & EXPERIENCE (REQUIRED):

Bachelor's degree or a combination of education and relevant experience. Experience in a quantitative discipline such as economics, finance, statistics or engineering.

KNOWLEDGE, SKILLS AND ABILITIES (REQUIRED):

- Substantial experience with MS Office and analytical programs.
- Strong writing and analytical skills.
- Ability to prioritize workload.

CERTIFICATIONS & LICENSES:

None

PHYSICAL REQUIREMENTS*:

- Sitting in place at computer for long periods of time with extensive keyboarding/dexterity.
- Occasionally use a telephone.
- Rarely writing by hand.

** - Consistent with its obligations under the law, the University will provide reasonable accommodation to any employee with a disability who requires accommodation to perform the essential functions of his or her job.*

WORKING CONDITIONS:

- Some work may be performed in a laboratory or field setting.

Hiring process

We're always looking for people who can bring new perspectives and life experiences to our team. Found the perfect role and ready to apply? Learn more on what to expect next.

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Resources

- FAQ
- LCA Notifications
- Disability and Diversity Services
- Veterans
- Jeanne Clery Act – Campus Safety Report
- Image Credit

Equal Opportunity

Consistent with its obligations under the law, the University will provide reasonable accommodation to any employee with a disability who requires accommodation to perform the essential functions of his or her job.

Stanford is an equal employment opportunity and affirmative action employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability, protected veteran status, or any other characteristic protected by law.

Stanford University

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