

Job Opportunity - Research Analyst

Job Summary:

The Vanderbilt University Medical Center Lung Cancer Genetic Epidemiology Lab seeks to recruit a full-time, motivated, collaborative, and talented research analyst. We seek an individual to conduct novel population-based research in lung cancer using large, multi-level datasets. The individual will be expected to contribute intellectually to research, grants, and lab meetings and will have the opportunity to lead their own projects. The Lung Cancer Genetic Epidemiology Lab is a research group that focuses on understanding the role of social, environmental, and genetic factors influencing lung cancer. Current projects include statistical modeling to address disparities in lung cancer screening eligibility, genetic architecture of lung cancer among diverse populations, genetics of immunotherapy response, improving racial diversity in lung cancer clinical trials, and population genetic modeling. We are particularly interested in candidates from diverse backgrounds who share an interest in health disparities research. The successful candidate will develop and perform analyses across multiple large-scale projects and will be responsible for management of data and resources. The successful applicant will have excellent analytic and communication skills, a record of stellar interdisciplinary collaboration, and experience in writing grant applications.

Key responsibilities:

- Manage, organize, and analyze data from several large, ongoing population- and clinic-based studies of lung cancer for internal and external collaborators.
- Keep detailed and accurate records and problem solve, demonstrating initiative and suggest solutions to problems. There are multiple projects being managed simultaneously, with varying degrees of complexity. Setting priorities and multi-tasking are important.
- Data management and analysis of epidemiologic, genomic, and clinical data, including complex dataset manipulation.
- Prepare written reports, research grant applications, and articles for publication.
- Develop and document analytic pipelines for use by lab members. Maintain reproducible research practices.
- Support members of the lab with varying computational backgrounds. Provide guidance to students and postdocs.
- Assist with visualization of data for manuscripts, grants, and presentations.
- Present at national conferences.
- Willingness to take on additional responsibilities as they arise.
- Actively seek new learning opportunities, seeing learning as a part of work.

Qualifications:

- Master's degree required, with 1+ years of experience preferred.
- Strong quantitative background required.

- Strong background in biostatistics, epidemiology, human genetics, data science or related field.
- The candidate must have a passion for health disparities and for using epidemiologic data to advance healthcare and population health.
- Outstanding interpersonal and organizational skills, excellent verbal, and written communication skills, plus an enthusiasm for developing collaborative partnerships are required.
- Demonstrated record of excellent attendance and reliability are required.
- Applicants must be fluent in R, Stata, or SAS. Working in a Unix/Linux cluster environment is desirable, but not required.
- Expertise in epidemiologic principles, study design and analysis, and study/project management is desired.
- The successful candidate should have expertise in data analysis and data presentation, including simple (e.g. descriptive, distributions) and complex (e.g. multivariable modeling) statistical analysis, report generation, and data visualization.
- Research experience in social determinants of health, disparities, genetic epidemiology, social and behavioral sciences, health policy, geography, and/or demography is desired.
- Experience in multi-level modeling and geospatial analyses desirable.

We value diverse voices in science and seek to support individuals from all backgrounds. The ideal candidate will enjoy working in an intellectually exciting environment as an integral part of a highly motivated team. Excellent communication, organizational skills, and friendly demeanor are essential. VUMC is an affirmative action/equal opportunity employer.

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Interested candidates should send an email inquiry and CV to Dr. Melinda Aldrich, MPH, PhD (melinda.aldrich@vumc.org) to apply.