

# Professional Research Assistant (15151)

Status  
Open

Job Posting Owner  
Nguyen, Thuy

Status Details  
Sourcing

Hiring Manager  
Ringham, Brandy

Primary Location  
United States > Aurora

Requisition Type  
Professional

Hired Candidates  
0 out of 1

## Description (External)

### Description - External

UNIVERSITY OF COLORADO  
Anschutz Medical Campus  
Colorado School of Public Health – Department of Epidemiology  
Lifecourse Epidemiology of Adiposity and Diabetes (LEAD) Center

Professional Research Assistant / Sr. Professional Research Assistant

### NATURE OF WORK

The biostatistics research team within the Lifecourse Epidemiology of Adiposity and Diabetes (LEAD) Center is seeking a full-time (1.0 FTE, 40 hours/week) Professional Research Assistant (PRA) or Senior Professional Research Assistant (Sr. PRA) depending on skills and experience. The PRA/Sr. PRA will assist with the development of statistical methods and software for the design and analysis of lifecourse epidemiology studies. Under the guidance of Dr. Brandy Ringham, the PRA/Sr. PRA will write manuscripts, reports and technical documentation, derive novel statistical methods, produce software for their implementation and demonstrate the utility of the methods with examples from LEAD Center studies. It is of paramount importance that the successful candidate have excellent skills in scientific writing. The successful candidate will also have strong skills in mathematics, SAS programming, documentation and archiving. Title and pay will be commensurate with skills and experience, and will follow the Colorado School of Public Health, Department of Epidemiology guidelines.

The Colorado School of Public Health (CoSPH) represents a multi-university collaboration between University of Colorado (CU), Colorado State University (CSU), and University of Northern Colorado (UNC), whose mission is to inspire academicians, practitioners, and students of public health to work collaboratively to assure that all people and communities are healthy and their environments sustainable.

The Lifecourse Epidemiology of Adiposity and Diabetes (LEAD) Center is a groundbreaking Research Center that investigates and seeks to understand the developmental origins of health and disease, and the complex interplay of environmental exposures, genetic and epigenetic processes, and critical developmental periods in life and the development of obesity, type 1 and type 2 diabetes, among other diseases. LEAD scientists aim to understand the causes of disease, and ultimately translate the findings into preventive actions.

### SUPERVISION RECEIVED

This position will report directly to Dr. Brandy Ringham, Research Associate and LEAD Center Director of Biostatistics.

### EXAMPLES OF WORK PERFORMED

- Write mathematical proofs in LaTeX, LyX, EXP or other math processing software under the guidance of senior biostatisticians.
- Write summaries of the processes used in the development of statistical methods and software that clearly communicate how the work was performed, how to implement the work and where all components of the work are stored.
- Write manuscripts describing mathematical concepts and their applications to biomedical research in a clear and concise manner consistent with journal guidelines.

- Use public domain literature databases to investigate prior work related to the project and write summaries of the searches.
- Develop algorithms to implement novel statistical methods in the SAS and SAS/IML environments using good programming practices.
- Meet with epidemiologists, nutritionists and other scientists to understand how the novel statistical methods could be applied to their studies.

#### KNOWLEDGE, SKILLS, AND ABILITIES

- Knowledge of mathematical techniques, including calculus, linear algebra and numerical analysis
- Knowledge of foundational statistical concepts, either through coursework or work experience
- Experience with Microsoft Office products, including Excel, Word and PowerPoint
- Excellent communication and organizational skills

#### SALARY RANGE

The salary range at the PRA level is \$55,000 to \$65,000. The salary range at the Sr. PRA level is \$65,000 to \$75,000. Salary is commensurate with skills and experience. The University of Colorado offers a full benefits package. Information on University benefits programs, including eligibility, is located at Employee Services.

The University of Colorado Denver is dedicated to ensuring a safe and secure environment for our faculty, staff, students and visitors. To assist in achieving that goal, we conduct background investigations for all prospective employees.

The Immigration Reform and Control Act requires that verification of employment eligibility be documented for all new employees by the end of the third day of work. Alternative formats of this ad are available upon request for persons with disabilities.

Your total compensation goes beyond the number on your paycheck. The University of Colorado provides generous leave, health plans and retirement contributions that add to your bottom line.

Benefits: <https://www.cu.edu/employee-services/benefits>.

Total Compensation Calculator: <https://www.cu.edu/employee-services/total-compensation>

#### DIVERSITY AND EQUITY

Please click here for information on disability accommodations: <http://www.ucdenver.edu/about/departments/HR/jobs/Pages/JobsatCUDenver.aspx>

The University of Colorado Denver | Anschutz Medical Campus is committed to recruiting and supporting a diverse student body, faculty and administrative staff. The university strives to promote a culture of inclusiveness, respect, communication and understanding. We encourage applications from women, ethnic minorities, persons with disabilities and all veterans. The University of Colorado is committed to diversity and equality in education and employment.

#### Qualifications - External

##### MINIMUM REQUIREMENTS

##### Qualifications for the Sr. PRA level

- Master of Science degree in statistics, biostatistics, computer science, mathematics or a related field
- Demonstrated excellence in scientific writing, including but not limited to preparation of manuscripts for statistical journals, documentation of processes used in statistical methods development and summaries of literature searches
- Demonstrated experience using LaTeX and LaTeX-based math processing software
- Demonstrated experience in SAS programming, including SAS/IML
- Proficient with Microsoft Office products, including Excel, Word and PowerPoint

##### Qualifications for the PRA level

- Bachelor ' s degree and coursework in statistics, biostatistics, computer science and mathematics

- Superior skills in scientific writing, including but not limited to preparation of manuscripts for statistical journals, documentation of processes used in statistical methods development and summaries of literature searches
- Experience using LaTeX and LaTeX-based math processing software
- Experience in SAS programming, including SAS/IML
- Familiar with Microsoft Office products, including Excel, Word and PowerPoint

#### PREFERRED REQUIREMENTS

- Master of Science degree in statistics, biostatistics, computer science, applied mathematics or related field at the PRA level
- Prior experience developing novel statistical methods, either from work or studies
- Excellent oral communication skills
- Strong interest in learning
- Great attention to detail