

Lead Researcher

Posting Information

Posting Information

Department	Marsico Lung Inst - CF Center-426401 - Kreda Laboratory
Career Area	Research Professionals
Is this an internal only recruitment?	No
Posting Open Date	03/29/2023
Application Deadline	04/18/2023
Position Type	Permanent Staff (SHRA)
Position Title	Research Specialist - Advanced
Salary Grade Equivalent	GN13
Working Title	Lead Researcher
Position Number	00056402
Vacancy ID	P017176
Full-time/Part-time Permanent/Time-Limited	Full-Time Permanent
If time-limited, estimated duration of appointment	
Hours per week	40
Work Schedule	Monday – Friday, 8:00 am – 5:00 pm
Work Location	Chapel Hill, NC
Position Location	North Carolina, US
Hiring Range	\$61,450 - \$80,000
Pay Band Information	To learn more about the pay band for this branch and role, please see the Career Banding rates spreadsheet .

Position Summary Information

Primary Purpose of Organizational Unit

The UNC School of Medicine has a rich tradition of excellence and care. Our mission is to improve the health and wellbeing of North Carolinians, and others whom we serve. We accomplish this by providing leadership and excellence in the interrelated areas of patient care, education, and research. We strive to promote faculty, staff, and learner development in a diverse, respectful environment where our colleagues demonstrate professionalism, enhance learning, and create personal and professional sustainability. We optimize our partnership with the UNC Health System through close collaboration and commitment to service.

OUR VISION

Our vision is to be the nation's leading public school of medicine. We are ranked 2nd in primary care education among all US schools of medicine and 5th among public peers in

NIH research funding. Our Allied Health Department is home to five top-ranked divisions, and we are home to 18 top-ranked clinical and basic science departments in NIH research funding.

OUR MISSION

Our mission is to improve the health and well-being of North Carolinians and others whom we serve. We accomplish this by providing leadership and excellence in the interrelated areas of patient care, education, and research.

Patient Care: We will promote health and provide superb clinical care while maintaining our strong tradition of reaching underserved populations and reducing health disparities across North Carolina and beyond.

Education: We will prepare tomorrow's health care professionals and biomedical researchers by facilitating learning within innovative curricula and team-oriented interprofessional education. We will cultivate outstanding teaching and research faculty, and we will recruit outstanding students and trainees from highly diverse backgrounds to create a socially responsible, highly skilled workforce.

Research: We will develop and support a rich array of outstanding health sciences research programs, centers, and resources. We will provide infrastructure and opportunities for collaboration among disciplines throughout and beyond our University to support outstanding research. We will foster programs in the areas of basic, translational, mechanistic, and population research.

The purpose of this position is to perform biological experiments in cell and mouse models to better understand lung disease pathogenesis and identify novel therapeutics.

Position Summary

The main research activities include experimental design, execution and troubleshooting; research data analysis and reporting; lab management, inventory and basic administrative duties; and assisting the PI with coordinating lab activities and training. Specifically, research activities will encompass: (1) advanced techniques of tissue culture of mammalian primary cells and establishing new cell lines by molecular biological and genetic manipulation as well as preparation and inventory of tissue culture reagents; (2) pharmacological and biochemical assays in live cell cultures aimed to identify potential therapeutic targets for lung diseases; (3) advanced molecular biology techniques; (4) assisting in the basic maintenance of laboratory equipment and the electronic inventory of laboratory supplies and mouse colonies.

Minimum Education and Experience Requirements

Bachelor's degree in a discipline related to the area of assignment; or equivalent combination of training and experience. All degrees must be received from appropriately accredited institutions.

Required Qualifications, Competencies, and Experience

The applicant should have a comfortable understanding of cell biology, biochemistry, molecular biology, and math concepts.

The individual must be able to accurately carryout a variety of experimental protocols, that include the following: (1) strong experience in mammal cell culture techniques, including primary cell production and maintenance, specialized growing media preparation, use of different growing platforms and supports, use of aseptic techniques and bsl2 safety cabinet; (2) profound knowledge and experience of advance molecular biology techniques including isolation of RNA/DNA and analysis of gene expression using different experimental platforms and techniques, knowledge and experience selecting and ordering the adequate reagents for specialized experiments; (3) deep knowledge of and experience with biochemical techniques tasked to identify and purify proteins, analysis of cellular protein levels using different technologies, knowledge and experience to prepare chemical reagents (including calculations, solubility, solvents, preparation protocols, and pH); (4) strong experience in biochemical /pharmacological assays in live mammalian cell cultures including experimental design, reagent preparation, work in sterile conditions in bsl2 safety cabinets, live cell sampling and monitoring using different technologies; (5) ability to design experiments, analyze and interpret data, troubleshooting of unexpected results and maintain updated and detailed written and computerized records of laboratory procedures; (6) conforming to University and Federal regulations for safety and working in a diverse academic institution.

The position entails interpersonal interactions and communications with the PI and other members of the lab and the CF Center including students, postdocs, technicians, and faculty to ensure an effective work environment and the transfer of research results.

Preferred Qualifications, Competencies, and Experience

Prefer applicant with a Bachelor's degree in Biology, Biochemistry, Chemistry and at least 4 years of relevant laboratory experience or Master's degree or higher in Biology or Chemistry and at least two years of relevant laboratory experience. Prefer applicant with

the following attributes: (1) exceptional attention to detail and organizational skills and the ability to follow detailed protocols precisely, learn new techniques and derive information and novel procedures from the literature; (2) ability to work closely with other researchers, train and supervise students or new members of the laboratory staff and excellent interpersonal communication skills; (3) ability to derive information and novel procedures from the literature; (4) ability to update /maintain mouse protocols, IRB protocols, and lab safety plan, and assist with laboratory inspections; (5) Knowledge and experience of advance molecular biology techniques, including isolation of DNA/RNA, to create reporter cell lines to test therapeutic gene therapy/editing approaches, advanced knowledge and experience using genomic/transcriptome search engines and data bases to design new reporter genes/min-genes and to analyze data, ability to isolate RNA/DNA and analyze gene expression using different experimental platforms and techniques, and knowledge and experience selecting and ordering the adequate reagents for specialized experiments.

Required Licenses/Certifications

Special Physical/Mental Requirements

Attention to details. Wet bench research requiring extensive pipetting, visual accuracy, attention to detail, working simultaneously with multiple specimens; handling and disposal of biohazards.

Campus Security Authority Responsibilities

Not Applicable.

Position/Schedule Requirements

Evening work occasionally, Exposure to Bloodborne Pathogens, Exposure to Hazardous Materials, Laboratory, Night work occasionally, Overtime occasionally, Valid NC Driver's License, Weekend work occasionally

Special Instructions

NOTE TO APPLICANTS: This is a highly specialized role. Your response to all supplemental questions is required to be considered for this position.

Quick Link

<https://unc.peopleadmin.com/postings/253133>

Contact Information

Office of Human Resources Contact Information

If you experience any problems accessing the system or have questions about the application process, please contact the Office of Human Resources at (919) 843-2300 or send an email to employment@unc.edu

Please note: The Office of Human Resources will not be able to provide specific updates regarding position or application status.

Equal Opportunity Employer Statement

The University of North Carolina at Chapel Hill is an equal opportunity and affirmative action employer. All qualified applicants will receive consideration for employment without regard to age, color, disability, gender, gender expression, gender identity, genetic information, race, national origin, religion, sex, sexual orientation, or status as a protected veteran.

Applicant Documents

Required Documents

1. Curriculum Vitae / Resume
2. Cover Letter
3. List of References

Optional Documents

None

Posting Supplemental Questions

Required fields are indicated with an asterisk (*).

1. * Please select the response below that best describes your experience/education for the Research Specialist position.
 - o Bachelor's, Master's or Doctoral degree in a discipline related to the area of assignment.
 - o Associate's degree in a discipline related to the area of assignment and 2 years related experience.
 - o Combination of related post-high school education and experience to equal at least 4 years of experience in a closely related field. (ex: 1 year towards a related degree and 3 years of related experience).
 - o High School diploma/GED and at least 4 years of related experience
 - o Did not complete high school but have a combination of high school education and experience to equal at least 8 years (ex. 3 years of high school and 5 years of experience).
 - o None of the above
2. * How many years of experience do you have handling mice?
 - o 1-2
 - o 2-5
 - o 5-8
 - o 8 or more
3. * Please describe briefly your laboratory experience as it relates to the position: Include type of experience, location and supervisor of the laboratory, specific bench activities, other laboratory activities, years in each laboratory / position:

(Open Ended Question)
4. * Please describe briefly your mammalian tissue culture experience and previous BSL2 activities: type of experience, specific activities and cell types, years in each laboratory / position with these activities.

(Open Ended Question)
5. * How fluid are you in basic math and chemistry to prepare reagents and make calculations in different units?

(Open Ended Question)
6. * Do you have experience counting manually live cells under the microscope?

(Open Ended Question)
7. * how much microscopy experience do you have?

(Open Ended Question)
8. * What type of work did you perform in live cells?

(Open Ended Question)
9. * Please describe briefly your molecular biology experience: type of experience, specific activities, RNA isolation, mRNA expression, RT-PCR, years in each laboratory / position with these activities.

(Open Ended Question)