Overall Description of Responsibility or Nature of Work
This position reports directly to the Joshua Thurman, MD in the Division of Renal Diseases and Hypertension and is responsible for designing and conducting experiments to explore mechanisms of glomerular inflammation in autoimmune disease. This work will entail in vivo models of autoimmune kidney disease, small animal imaging, flow cytometry and CyTOF, and analysis of RNAseq experiments. The overall goal of these experiments is to develop novel therapies for preventing tissue inflammation. Analysis of the experiments will include biochemical assays, flow cytometry, histologic analysis.

Specific Position Duties with Percentages of Time

[ 45 ]%  
Perform imaging experiments with probes to detect tissue inflammation:  
- Produce and purify recombinant proteins for use as imaging probes. These proteins have already been designed  
- Test the probes in animal models (imaging will be conducted at the small animal imaging core)  
- Detailed analysis and recording of results

[ 45 ]%  
Animal models of renal disease:  
- Conceive experiments utilizing novel therapeutic agents in models of renal disease  
- Conduct experiments using animal models of glomerulonephritis  
- Examine histologic and physiologic outcomes  
- Flow cytometry and CyTOF of immune cells  
- Analyze transcriptional profiles within tissues (RNAseq)  
- Immunohistochemical analysis of tissues  
- Detailed analysis and recording of results

[ 10 ]%  
General laboratory support  
- Assist with maintenance of animal colony  
- Assist with laboratory upkeep and supply ordering

Qualifications:  
Minimum Requirements:  
- Graduation from an accredited college or university with a PhD/MD in one of these fields of study: Immunology, Molecular Biology, Nephrology.  
- Minimum of 3 years experience working with relevant methods and assays  
- Excellent communication and organizational skills  
- The ability to work independently within the research lab
Proficiency in Microsoft Word, Excel, and Powerpoint.

Desired or preferred:
- Proven experience and familiarity with murine models of renal disease.
- Proven experience and familiarity with standard molecular biology techniques.
- Proven experience and familiarity with FACS analysis.
- Experience with Microsoft Word, Excel, Powerpoint, and Prism

Special conditions of employment:
- Irregular hours may be necessary for some experiments.

Salary & Benefits: 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 https://www.cu.edu/employee-services/benefits-wellness/new-employee.

APPLICATION:
- Applicants must apply through https://www.cu.edu/cu-careers
- Review of applications will begin June 15, 2019 and continue until position is filled.
- Required application materials:
  1) Cover letter
  2) Resume/Vitae

Special Notices to Applicants:
The University of Colorado Anschutz Medical Campus is committed to providing a safe and productive learning and living community. To achieve that goal, we conduct background investigations for all final applicants being considered for employment. Background investigations include a criminal history record check, and when appropriate, a financial and/or motor vehicle history.

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. The University of Colorado strongly supports the principle of diversity. We encourage applications from women, ethnic minorities, persons with disabilities and all veterans. Alternative formats of this ad are available upon request for persons with disabilities.

Please be advised that the University does check references as part of the employment process, and selection committee members may choose to contact work references during the search process other than those listed in your application.

The University of Colorado is committed to diversity and equality in education and employment.