

# Postdoc Position in the Division of Nephrology at the University of Rochester

## Duties and Responsibilities

We are seeking a motivated postdoctoral associate to work in the field of Hemodialysis. The overarching goal is for the candidate to develop miniaturized hemodialysis (HD) subsystems for portable or wearable hemodialysis. The position will be held in the Department of Biomedical Engineering. The main research areas will include (1) the development of a silicon-membrane-based dialyzer for large-animal HD; (2) the development of a membrane-based plasma generator; (3) benchtop evaluation of the two devices alone and in tandem; (4) conducting large-animal hemodialysis studies. The candidate will also have opportunities to work with researchers in the Department of Nephrology and other microfluidic-related projects within the Department of Biomedical Engineering, including point-of-care diagnostic devices.

## Position Qualifications

The candidate should hold a doctoral degree in biomedical engineering or a related field and have experience in microfluidics, blood analysis, and hemodialysis. Candidates with a strong understanding of finite element analysis, especially using COMSOL Multiphysics, are encouraged to apply.

The University of Rochester is committed to fostering, cultivating and preserving a culture of equity and inclusion. The University believes that a diverse workforce and inclusive workplace culture enhances the performance of our organization and our ability to fulfill our important missions. The University is committed to fostering and supporting a workplace culture inclusive of people regardless of their race, ethnicity, national origin, gender, sexual orientation, socio-economic status, marital status, age, physical abilities, political affiliation, religious beliefs or any other non-merit fact, so that all employees feel included, equal valued and supported.

## Salary Range

Salary will be commensurate with skills and experience, as well as NIH guidelines.

## Benefits

Benefits will follow the University of Rochester's standard postdoctoral benefits.

## Length of Position

1 year (the position may be extended upon initial performance).

## To apply:

Please email the following materials to [dean\\_johnson@urmc.rochester.edu](mailto:dean_johnson@urmc.rochester.edu)

- (1) Cover Letter; (2) Curriculum Vitae; and (3) Contact information of 3 References. Consideration of applications will begin immediately and continue until the position is filled