

# **Postdoc Position in the Department of Biomedical Engineering 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) development of a sheet-membrane based dialyzer for large-animal HD; (2) development of a membrane-based plasma generator; (3) benchtop evaluation of the two devices alone and in tandem; (4) conduct large-animal hemodialysis studies. The candidate will also have opportunities to work with researchers in the Department of Nephrology, as well as 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, with experience in microfluidics, blood analysis, and hemodialysis. Candidates with strong understanding of finite element analysis especially using COMSOL Multiphysics are encouraged to apply. The University of Rochester is an Affirmative Action, Equal Opportunity Institution. Women and minority candidates are strongly encouraged to apply, this includes all underrepresented groups based on age, gender, sex, ethnicity, or race.

## **Salary Range**

Commensurate with skills and experience

## **Length of Position**

2 years (the position may be extended upon initial performance).

## **Benefits**

Salary is commensurate with qualifications. Benefits will be in accordance with the University of Rochester's standard postdoctoral benefits.

## **Contact**

Please email the following materials to [dean.johnson@rochester.edu](mailto:dean.johnson@rochester.edu)

(1) Cover Letter; (2) Curriculum Vitae; and (3) Contact information of 3 References.