

Position Type:

- Postdoctoral Position at the NIH

Position Title: Biomedical Engineering – Hemodialysis Devices

Position Description: please include here at least the following

Duties and Responsibilities:

The Division of Nephrology at the University of Rochester Medical Center is seeking a candidate for a Post-Doctoral Researcher under the supervision of Dr. Dean Johnson. The successful candidate will participate in the ongoing research of the Biofluid Research Laboratory, conducting collaborative and independent research in the area of hemodialysis and blood analysis devices. The lab's activities span basic science of mechanics of blood-component diffusion to the design and testing of devices to enable portable and wearable hemodialyzers (1R01DK126901-01) and microfluidic blood-component sensors.

Position Qualifications:

The candidate should hold a doctoral degree in biomedical engineering or a related field, with experience in microfluidics, blood analysis, and hemodialysis as well as:

- Evidence of ability to conduct independent research.
- Research expertise (PhD thesis or related efforts) in an area relevant to projects described above.
- Record of publication in peer reviewed journals.
- Excellent communication skills

Preferred qualifications include experience in:

- Bench work, including Biosafety levels 1 or 2
- Design processes
- Design and prototyping medical devices, particularly blood handling devices
- Expertise with use of commercial Computational Fluid Dynamics (CFD) or Finite Element (FEA) packages.
- Electromechanical devices and/or control theory
- Data acquisition systems such as LabView, MATLAB
- Numerical simulation to work towards our immediate goal of designing, fabricating, and testing prototype devices.
- Mentoring of students

Employer Name: Dr. Dean G. Johnson

Application Deadline Date:

Disclaimers:

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,