

Postdoctoral Scholar: Treatment of Chronic Thrombus with Histotripsy and Thrombolytics

Department of Radiology
University of Chicago
Chicago, IL

Like ultrasound but hate clots? The Biomedical Acoustics Development and Engineering Research Laboratory seeks a postdoctoral scholar in the field of image-guided focused ultrasound therapies for the treatment of venous thrombosis. The overall goal of this NIH-funded project is to harness the physical mechanisms of histotripsy as an adjuvant to the thrombolytic drug rt-PA, or targeted rt-PA-loaded liposomes to treat chronic deep vein thrombosis. The scholar will conduct *in vitro* studies with high frame rate active and passive ultrasound imaging techniques to monitor bubble cloud activity initiated by the histotripsy source. In addition, the scholar will provide support for *in vivo* assessment of the approach. Further information on the project can be found at baderlab.uchicago.edu.

A Ph.D. in physics, medical physics, biomedical engineering, or a related field is preferred. Proficiency in experimental and numerical techniques, and data acquisition and analysis are also required. The candidate must be highly motivated, have excellent written and verbal communication skills, and enthusiasm to work in a multi-disciplinary team. Preference will be given to candidates with demonstrated experience and productivity in ultrasound-guided therapies and cavitation dynamics. Mentorship by the principal investigator will be used for training and promoting career development of the candidate, and the scholar will also have the opportunity to collaborate with other basic and clinical scientists.

Interested candidates should send a curriculum vita, cover letter addressing current research interests and dates of availability, and the names and contact information for three references via email to Dr. Kenneth Bader: baderk@uchicago.edu.

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