Subject: Postdoc Position(s),Fluid-structure Interaction, UNC-Chapel Hill

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Applications are invited for one or more postdoctoral associates
within the Carolina Center for Interdisciplinary Applied Mathematics
at the University of North Carolina at Chapel Hill. Potential projects
include: aortic mechanics, including the mechanics of aortic aneurysm
and dissection; cardiac electro-mechanical coupling; cardiovascular
fluid dynamics and fluid-structure interaction, especially the fluid
dynamics of medical devices such as prosthetic heart valves; numerical
methods and computational infrastructure for fluid-structure
interaction; and numerical methods and computational infrastructure

for complex (polymeric) fluids.

One position could be funded through an NSF Software Infrastructure
for Sustained Innovation (SI2) award that supports the development of
related computational software (http://ibamr.github.io). Another
position could be funded in part through an NSF Focused Research Group
(FRG) award that supports research on computational methods for
complex fluids.

Please provide via https://www.mathjobs.org/jobs/jobs/10758 (1) a
vita; (2) a brief statement of research interests; and (3) three
letters of reference. Applicants must also apply online at
http://unc.peopleadmin.com/postings/127815 to be considered for this
position. A PhD in mathematics, computer science, bioengineering, or a
related field is required. Ideally, applicants will also have

substantial experience with scientific computing using compiled
software languages (C, C++, Fortran).

For further information, please contact:
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