The Marsden lab at Stanford University seeks a data technician to work on the development and expansion of an open data resource for cardiovascular imaging, modeling, and simulation. The Vascular Model Repository (VMR) is a freely available open data online resource supported by funding from the NIH and the National Library of Medicine.

We seek an eager candidate to fill a full-time 1-year staff position (with possible extension) to significantly expand the VMR and develop it into a valuable community resource for computational modeling, medical device development, machine learning, and AI research in the cardiovascular space. The position can start anytime between now and fall 2022.

Qualifications should include:
- BS in engineering, computer science, biomedical computation, or related field with demonstrated computational skills. (must have)
- Team player with good people skills to interface with lab members and clinicians. (must have)
- Experience in Python programming and/or basic website development. (must have)
- Interest in medical imaging and cardiovascular anatomy/disease. (must have)
- Excellent organizational skills, writing skills, and attention to detail. (must have)
- Database or more extensive website development experience. (nice to have)
- Prior experience with image segmentation or image processing. (nice to have)
- Track record of contribution to open source or open data efforts. (nice to have)

Primary responsibilities:
- Identify and organize new data for the VMR (images and models from a variety of cardiovascular anatomies and diseases in children and adults).
- Interface with our radiology technician to construct new anatomic models.
- Create projects with the SimVascular software and confirm the fidelity of datasets.
- Add data sets to the VMR database and website to expand the VMR by 2-3X.
- Create relevant documentation and tutorials for the user community.
- Interface with our user community to answer questions and facilitate the use of the VMR.

Benefits:
- Be part of a dynamic interdisciplinary research team
- Build connections with medical school collaborators
- Co-authorship on relevant scientific papers
- Medical and other benefits as a Stanford staff member

Interested candidates should send a CV and brief (~1-2 paragraph email) summary of background and interests to:

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