

Research Assistant / Post Doc Position available at Cardiovascular Mechanobiology Lab

Qatar University Biomedical Research Center

Qatar University – Middle East Technical University Joint Project

This project is a joint investigation with Principal Investigators Prof. Huseyin Yalcin from Qatar University Biomedical Research Center and Prof. M. Metin Yavuz from METU Mechanical Engineering Department. The study is about transcatheter aortic valve replacement (TAVR) therapy. In the project, we will simulate flow hemodynamics for aortic valve disease patients, before and after TAVR. We will adapt fluid-structure interaction approach for these simulations. Particle image velocimetry in experimental aortic flow systems will also be conducted.

An ideal candidate should have experience and/or interest for the following topics;

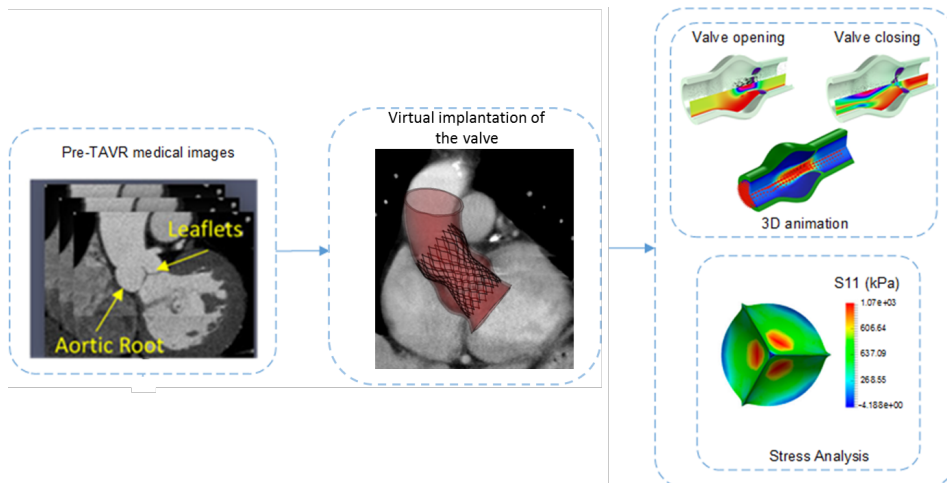
- MS or PhD in the relevant field
- Computational modeling for cardiovascular simulations, knowledge of relevant software such as ANSYS, Openfoam,
- Fluid-structure interaction approach
- Medical image analysis (echocardiography, MRI, CT), knowledge for relevant software such as MIMICS,
- Proven publication record

This project is funded by Qatar National Research Fund (QNRF), National Priorities Research Program (NPRP) and duration is 3 years. There is basic salary and a benefit package. Relocation to Qatar will be expected. Interested researchers can find more information about Biomedical Research Center below;

<http://www.qu.edu.qa/offices/research/brc/>

https://scholar.google.com/citations?hl=en&user=QtMeO8wAAAAJ&view_op=list_works&sortby=pubdate

Please contact Dr. Yalcin at hyalcin@qu.edu.qa if you want to be considered for this position.



Huseyin Cagatay Yalcin, Ph.D.

Research Associate Professor

Cardiovascular Research

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