



Project description

The development of any aortopathy and cardiovascular event is highly dependent on the changes in blood flow behaviour. This project involves developing new understanding of the relationship between the changes in blood properties on the development of cardiovascular disease in particular due to aging.

Primary aim

The primary aim of this project is to understand the effect of changes in the geometry of the blood vessels (such as aorta) on the fluid mechanics of blood.

Secondary aim

The secondary aim of this project is to conduct a FSI study on blood vessels.

Student attributes

Applicants with a strong background in fluid mechanics with a Bachelor (honours H2A or higher) or Masters Degree in Mechanical, Aerospace or BioMechanical Engineering are encouraged to apply. Familiarity with CFD and experimental fluid mechanics is an advantage.

For further enquiries

Associate Professor Maziar Arjomandi

School of Mechanical Engineering
The University of Adelaide
SA 5005 Australia

Email: maziar.arjomandi@adelaide.edu.au

Telephone: +61 8 8313 8128

Free-call: 1800 061 459

Online enquiries: adelaide.edu.au/student/enquiries

