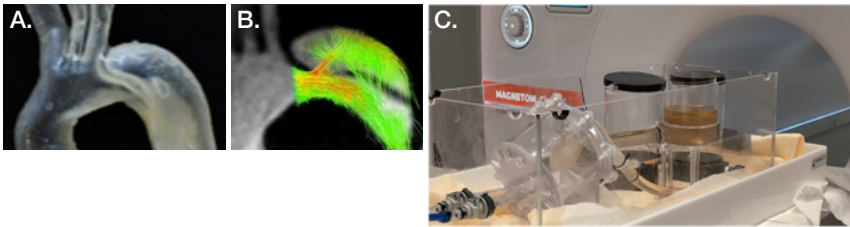


Stanford Radiology and Bioengineering Postdocs in Cardiovascular MRI



(A) Compliant 3D-printed phantoms undergo (B) 4D-Flow examination in the MRI scanner. (C) Pneumatically-driven cardiac emulators are used to evaluate cardiovascular hemodynamics for a range of conditions in the MRI scanner.



The Cardiac Magnetic Resonance Group in the Department of Radiology and Bioengineering at Stanford University is looking to **hire two thoughtful and creative postdocs** to join our team. The CMR Group's research focuses on developing advance cardiovascular MRI methods to evaluate hemodynamics. To do so we develop new MRI methods, novel 3D-printed and computer controlled cardiovascular emulators, and image processing and analysis methods. We are particularly interested in the cardiovascular flow and hemodynamics of children with congenital heart disease, especially those born with a single functional ventricle who go on to receive a Fontan procedure, a surgery that reroutes blood flow to allow the one working ventricle to support circulation throughout the body.

Project-1 – Design, engineer, and evaluate a Fontan circulation emulator to study flow and pressure changes resulting from Fontan conduit upsizing.

Project-2 – Design, engineer, and evaluate a Fontan circulation emulator to study hepatic flow distribution.

Both projects will develop the Fontan emulator to be patient-specific, MRI compatible, computer controlled, and quantitatively evaluated using advanced bench-top, CFD/FSI simulation, and MRI-based methods. The lab has several recent and upcoming publications on related projects.

Who: PhD-level scientists with previous experience in: 1) cardiovascular flow imaging; 2) cardiovascular experiments; 3) cardiovascular image analysis; and/or 4) cardiovascular FSI/CFD.

What: Join a team with diverse interests and expertise and a love for all things cardiovascular MRI and CHD.

Where: Cardiac MR Group in RSL and the Department of Radiology at Stanford University.

When: Start a two-year fully-funded appointment around September 2026.

Why: Contribute to meaningful projects; plan for a future in academic, industrial, or government research; become an expert manuscript and grant writer; and meet your professional goals.

How to apply? Please send your CV, plus PDFs of recent abstracts and published papers to Daniel Ennis at dbe@stanford.edu. Interviews start right away.

Stanford is an equal employment opportunity and affirmative action employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability, protected veteran status, or any other characteristic protected by law. Stanford also welcomes applications from others who would bring additional dimensions to the University's research mission.