**ACRF Image X Institute Postgraduate Research Scholarship**

The ACRF Image X Institute (30 full time researchers) has a broad mix of expertise and skills and will provide a very supportive and collaborative environment for PhD students. Our expertise and projects suit students from a variety of different backgrounds such as maths, software/algorithm development, medical physics or engineering.

These scholarships will involve performing research into acquiring CT images of patients as their heart beats, they breathe or during walking with applications of our research in radiation therapy and radiology. The type of work involved includes:

1. Image reconstruction (inverse problems) for students that are more mathematically inclined
2. Image segmentation and image processing for students interested in coding and algorithm development (including machine learning)
3. Hands on experiment work for students wanting experience working with clinical imaging equipment or students wanting to get involved in clinical trials.
4. In addition to the above projects, there is an opportunity to work on a project directly with an industry partner in the area of astrodynamics and satellite orbit determination.

Successful applicants will be required to be accepted into and enrol in a PhD program at the University of Sydney in order to receive the scholarship.

For students successful in attracting an RTP scholarship (or other external scholarship), this scholarship will revert to a $10,000 supplementary scholarship.