



<sup>^</sup> Antennas of the Murchison Widefield Array radio telescope.

## WHY CHOOSE POSTGRADUATE STUDY IN WESTERN AUSTRALIA?

Western Australia offers pristine environments for radio astronomy and the study of the sky. National and international astronomy projects are currently under construction in WA, including the Murchison Widefield Array (MWA) and the Australian Square Kilometre Array Pathfinder (ASKAP). Together with South Africa, Western Australia will host the world's largest science experiment, the Square Kilometre Array (SKA) radio telescope.

By studying astronomy and astrophysics or related computer science or engineering in Western Australia you will become part of the fast growing, internationally recognised, community of astronomers, computer scientists and engineers at ICRAR who are working with the world on these and many other projects. You will have the opportunity to work with researchers who are helping shape the future of astronomy and conducting research on a wide variety of areas in both optical and radio astronomy, as well as astronomy engineering and information and communication technologies (ICT) or computer science.

We have a thriving Masters and PhD program, with over 35 PhD students currently studying with our researchers. We consistently have projects on offer in astronomy, astrophysics, radio astronomy engineering and computer science.

You can complete a postgraduate degree with ICRAR at either Curtin University or The University of Western Australia.

## ASTRONOMY & ASTROPHYSICS

Both Curtin University and the University of Western Australia offer Masters and PhD programs in astronomy and astrophysics.

Study at either university offers the opportunity to meet and learn from researchers at both of our nodes.

For a current list of projects on offer see:

- » [www.astronomy.curtin.edu.au/research/future.cfm](http://www.astronomy.curtin.edu.au/research/future.cfm)
- » [www.astro.uwa.edu.au/students/research\\_projects](http://www.astro.uwa.edu.au/students/research_projects)

## RADIO ASTRONOMY ENGINEERING

The Curtin University node of ICRAR offers postgraduate study in radio astronomy engineering.

Radio astronomy engineering students have the unique benefit of study within an astronomy research environment that is equipped with a full engineering and prototyping lab and a team of over 10 technical and engineering staff.

For a current list of projects on offer see:

- » [www.astronomy.curtin.edu.au/research/future.cfm](http://www.astronomy.curtin.edu.au/research/future.cfm)

## COMPUTER SCIENCE

The University of Western Australia node of ICRAR offers postgraduate study in computer science for astronomy.

We have a dedicated Information and Communication Technology (ICT) team that is working towards the high performance computing challenges that come hand in hand with modern astronomy. ICRAR computer science students work on projects that have an astronomy bent, such as large databases, data visualisation, astronomical simulations and GPU programming.

For a current list of projects on offer see:

- » [www.astro.uwa.edu.au/students/research\\_projects](http://www.astro.uwa.edu.au/students/research_projects)

ICRAR's research is grouped into three overall themes: radio astronomy, radio astronomy engineering and data intensive science. These themes are further broken down into specific areas of research, such as designing computing systems for next-generation radio telescopes, prototyping new radio antenna designs and investigating the neutral hydrogen Universe.

## SCHOLARSHIPS

Our scholarships are a great way to experience our fast growing and exciting research environment with options available for all levels of tertiary study. There are many options for postgraduate scholarships at both our nodes for both local and international students.

The best place to search for them is the scholarship database for each University.

- » Curtin: <http://scholarships.curtin.edu.au/scholarships/>
- » UWA: <http://www.scholarships.uwa.edu.au/>

In addition, we have merit-based PhD scholarships for talented and motivated students from around the world. Scholarships are advertised on our scholarships page when available:

- » <http://www.icrar.org/education/scholarships>

## PREDOCTORAL STUDENTSHIPS

We also offer studentships for students who have completed their undergraduate studies but are yet to commence a PhD program.

Projects last for up to 10 weeks and are a perfect way to get a taste of the work that is going on in WA at the moment. Recipients receive a stipend during their time in Perth.

If you're interested in a Predoctoral Studentship, send us an email at [education@icrar.org](mailto:education@icrar.org) and introduce yourself.