

KEY FACTS

School of Physics

physics.uwa.edu.au



THE UNIVERSITY OF
**WESTERN
AUSTRALIA**

Faculty of Science



UWA is ranked at '5' – well above world standard for Physical Sciences – the highest possible ranking.

The School of Physics has a strong research focus, whilst maintaining a commitment to high quality teaching. The School is highly successful in attracting national and international competitive grants and fellowships for research, and has developed strong collaborations with major physics institutes around the world.

In the most recent Excellence in Research Australia (ERA) ranking **UWA received an index of '5,' the highest ranking possible: 'well above world standard' for Physical Sciences** – with the assessed categories being Astronomical and Space Sciences, Quantum Physics, Optical Physics, and Classical Physics.

Our staff have won numerous national and international research awards, including four prestigious Clunies Ross Awards for outstanding application

of science and technology to the economic, social and environmental benefit of Australia.

The School hosts the nodes of two Australian Research Council Centres of Excellence: **Engineered Quantum Systems (EQuS)** and **Centre for All-Sky Astrophysics (CAASTRO)**.

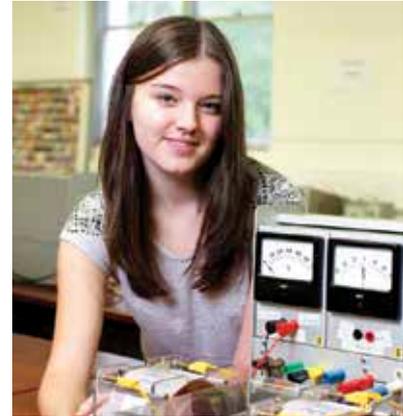
Courses

The School offers a Bachelor of Science (Physics), a Master of Physics (by coursework and research) with specialisations in theoretical physics, experimental physics, astronomy and astrophysics, medical physics and computational physics; and PhD studies.

Through its involvement in the **International Centre for Radio Astronomy Research (ICRAR)**, the School is playing a key role in the development of the **Square Kilometre Array (SKA)** – the world's largest radio telescope that will be able to probe the very early evolution of the Universe. Facilities also include the Zadko optical telescope, which is an important element in an international network of robotic telescopes imaging gamma ray bursts.

Our proximity to the Yarragardi laser-ranging station – the best laser-ranging station in the world – means UWA is set to become the primary Southern Hemisphere hub for future space missions by the European Space Agency, such as the 2016 Atomic Clock Ensemble in Space (ACES).

The School has a state of the art mechanical workshop specialising in high precision machining, ultra-high vacuum techniques and cryogenics.



Our School has been highly successful in applying the results of research to develop ground-breaking new technologies in areas including minerals exploration, biotechnology, medical physics and advanced radar systems. We work closely with industry partners to commercialise these new technologies.

Research activities in the School of Physics are focused under four themes:

- Astronomy and Astrophysics
- Precision and Quantum Measurement
- Theoretical and Computational Physics
- Biomagnetics and Medical Physics

Faculty of Science

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