

Bachelor of Bionanotechnology (Honours)

| CAMPUS | DURATION | ATAR – SR | IB | UAC | CRICOS | STARTS IN |
|--|----------|-----------|----------|--------------------------|-----------------------------|----------------------|
|  Wollongong | 4yrs | 85/95 DS | 31/37 DS | 757604/ 757605 DS | 090881E / 090882D DS | Session 1 (February) |

Bionanotechnology is an emerging field that combines principles from biology, physics, chemistry, and mathematics to understand and control biological processes at the molecular level. This branch of science is radically changing industry and society, and is creating exciting new job opportunities.

THIS DEGREE

A Bachelor of Bionanotechnology (Honours) will place you in a unique position to undertake an exciting interdisciplinary career in the biotech industry, pharmaceutical industry, academic biomedical research, government policy, patent law and many other fields.

Using bionanotechnological approaches, revolutionary advances are being made in the biomedical sciences, varying from the visualisation and manipulation of individual molecules, the use of nano-particles to deliver drugs to specific sites in the body and the development of nano-fabricated architecture to read out the sequence of DNA.

WHAT YOU WILL STUDY

This degree will give you the knowledge and concepts associated with bionanotechnology, knowledge of the principles from biology, physics, chemistry, and mathematics associated with the understanding and control of biological processes at the molecular level.

In the final year, you will undertake a substantial piece of supervised research, together with other required seminar and/or course work.

PROFESSIONAL BODIES AND ASSOCIATIONS

- Australian Society for Biochemistry and Molecular Biology
- Ecological Society of Australia

For more information visit
uow.info/sci-biono



UNIVERSITY
OF WOLLONGONG
AUSTRALIA

Why choose this course

MODERN PURPOSE BUILT FACILITIES

Our brand new \$80 million Molecular Horizons building has cutting-edge equipment and some of the world's best researchers in the molecular science field.

The centrepiece of the building is an ultra-high resolution Titan Krios cryo-electron microscope, one of only a handful in the world. The three-metre tall, one tonne, Titan Krios microscope enables scientists to see with accuracy and speed what previous generations of microscopes could not see. The unprecedented sharpness of the images will allow researchers to see how proteins work and will enable new health-related breakthroughs.

FORECASTED JOB GROWTH

Professional, Scientific and Technical Services is projected to increase 10.2% in employment growth in Australia. The projected high rate of employment growth for 2018 to 2023 reflects ongoing strength and demand for the services of qualified and highly educated workers.

Source: [Employment Projections](#)

GRADUATE CAREERS

- Agricultural Scientist
- Artificial Intelligence Designer
- Biochemist
- Bioinformaticist
- Biological Engineer
- Biotechnician
- Crime Scene Analyst
- Cytologist
- Drug Developer
- Ecologist
- Endocrinologist
- Entrepreneur
- Environmental Scientist
- Food Scientist
- Forensic Specialist
- Geneticist
- Health Policy Advisor
- Immunologist
- Journalist
- Laboratory Technician
- Marketing Specialist
- Media Correspondent
- Medical Sales Representative
- Medical Technology Developer
- Medical Writer
- Microbiologist
- Molecular Biologist
- Neuroscientist
- Optometrist
- Patent law specialist
- Pharmacologist
- Physician
- Physicist
- Policy advisor
- Professor/Teacher
- Radiologist
- Researcher
- Scientific Equipment Developer
- Scientific Equipment Sales Representative
- Software Engineer/Developer
- Technical Write



UOW is expanding its science precinct with world-leading technologies for scientific research and our undergraduate learning is designed to be deeply integrated with cutting-edge research. Such advances bring disciplines together to tackle the world's major 21st century challenges. The courses you take are taught by the scientists who are leading researchers.

Distinguished Professor Antoine van Oijen
Director, Molecular Horizons

Key dates

UOW Virtual Open Day

8 August

Learn more

uow.info/sci-bionano



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