

School of Physics

Theories ... Matter ... The Universe

Physics is a creative science! Lasers, semiconductors, medical imaging, the Web and electron microscopes are a few examples of contributions made decades ago. Physics continues to probe nature's secrets with new theories and experiments. You can join this great adventure!

Versatile Physics Graduates

Australia faces a massive shortage of scientists and engineers over the next few years. Research and industry require graduates with strengths in

- understanding the real physical world
- modelling real situations
- problem-solving
- instrumentation and experimental expertise
- scientific computing

Physics provide just these qualities! Students normally combine physics with mathematics, and perhaps electronics, engineering, law or commerce.

"Physics graduates are numerate, technically informed, computer-competent, used to team work"

(Professor Jocelyn Burnell, Open University UK).



Courtesy Australian Synchrotron..

Located next to Monash University are extensive CSIRO facilities, the Australian Synchrotron, while companies such as Varian, Optiscan and Bosch are nearby. Monash is a great place for your future in physics.

Careers to Suit Your Interests

A range of rewarding careers awaits suitably equipped graduates. Recent physics honours graduates Martin Spencer and Eugene Tan are at the Australian Synchrotron project; Bradley Jones develops confocal microscopes at Optiscan, while Matthew Ibrahim is at Melbourne's Aeronautical and Maritime Research Laboratories. Doing a higher degree is a good option for those who enjoy a challenge. Research areas at Monash are extremely diverse - from cosmology to nanostructures, atom optics to radiation therapy and medical imaging. PhD's lead to opportunities in research and development - internationally in CSIRO, government or in commercial organisations.

"During my undergraduate years at Monash University I studied a range of subjects in mathematics, computer science and physics. I enjoyed learning about how our physical world works and the wonderful intricacies of mathematics. In 2002 I graduated with a B. Science (Honours) in physics. Shortly after graduating I was offered the opportunity to join a team of Accelerator Physicists at the Australian Synchrotron Project (ASP)." (Eugene Tan)

Physics At Work!

Physics graduates enjoy rewarding work in a wide range of areas. Financial modelling is an area where physics PhD's excel!

A random sample of companies and organisations employing physics graduates in Australia:

• Australian Antarctic Div. • Hospitals • CSIRO Building, Construction and Engineering • CSIRO Environment Div. • Ceramic Fuel Cells • ANSTO • Anglo-Australian Telescope • Parkes Radio-telescope • Optiscan • Australian Pulp & Paper Institute • Gamma-Metrics • CSIRO Oceanography • Amcor Research and Technology • CSIRO Maritime Research • Australian Optical Fibre Research • Australian Standards Lab. • Environment Protection Authority • Sola • Advanced Ceramics • Australian Photonics CRC • Integrated Spectronics • Spectra-Physics • Varian • Bosch • BP Solar • Digicon geophysical • Environment Australia.

Job Information

physicsweb.org tiptop.iop.org Institute of Physics, UK.

www.aps.org/jobs/ American Physical Society

www.physicstoday.org/jobs American Inst. of Physics