

Studying science, engineering and technology (SET) at the undergraduate level, requires active engagement in order to find out where your degree might take you. This means reading industry publications and research journals, attending careers events, understanding the science and innovation cycle in knowledge-based economies, talking to people already working in a field of interest, and building up your network.

As some career paths will require further study, to find out what the market seeks from science graduates means understanding your aptitude and interests, understanding the labour market and making a plan to achieve your goals.

UK Graduate Careers Website

- > prospects.ac.uk/cms/ShowPage/Home_page/Options_with_your_subject/plcXbLc

Victoria, University of Wellington, New Zealand

- > victoria.ac.nz/st_services/careers/Resources/index.aspx

University of Tennessee

- > whatcanidowiththismajor.com/major/majors



GENERAL

For information on all possible majors, start by visiting the out the Science Faculty website:

- > bsc.unimelb.edu.au/careers bsc.unimelb.edu.au/course-planner

Graduate Careers Australia (GCA) - Career Profiles in Science:

- > www.graduatecareers.com.au/careerplanningandresources/exploringyourcareeroptions/careerprofiles/science/

Federal Government's Science Portal:

- > science.gov.au

Careers in Research – University of Melbourne:

- > courses.science.unimelb.edu.au/study/degrees

Careers in Medical Laboratory Science (US and Ireland):

- > gradireland.com/careers-advice/job-descriptions/medical-laboratory-scientist

BBC produced Science Career Videos

- > vega.org.uk/video/series/10

Online industry magazine (US) – includes various articles and career stories:

- > sciencecareers.sciencemag.org

Go to Career Magazine, type in major or field of interest in 'Articles' search

ABC Science show

- > abc.net.au/radionational/programs/scienceshow

Live or podcasts – look for those discussing career paths and keep up to date with current science topics.

For an informative look at careers after a PhD and a free e-book *From Scholar to Dollar* go to:

- > abc.net.au/radionational/programs/scienceshow/after-the-phd/5981004

TED Talks

Have a look at the Science and Medicine playlists for those that discuss careers or use the talks as a way of increasing your awareness of current topics:

- > ted.com/playlists

10 'types' of scientist – provides information on different types of science careers:

- > sciencecouncil.org/about-us/10-types-of-scientist/#explorer

Journal of Young Investigators

Use the Career Snapshots link in the Career Centre tab

- > jyi.org/issues-archive/?dat=0andcat=science-careers

The Conversation

Have a look at the Science or Environment tabs. Increase your awareness of current topics and the people that are contributing to discussion in these fields:

- > theconversation.com/au



AREAS OF STUDY

- Chemical Sciences
- Earth Sciences
- Environmental Sciences
- Engineering Systems
- Information Technology
- Life Sciences
- Mathematics and Statistics
- Physical Sciences
- Psychological Sciences

**CHEMICAL SCIENCES**

- Biochemistry and Molecular Biology,
- Chemistry
- Food Science
- Geology
- Pathology
- Pharmacology
- Physics

Biochemistry and Molecular Biology

Biochemical Society (US) – careers page:

- > biochemistry.org/Education/Careers/tabid/344/Default.aspx

Chemistry

Faculty site – look at the range of career destinations, then go to the Career Profiles:

- > chemistry.unimelb.edu.au/study/current-students/careers

Royal Australian Chemical Institute:

- > raci.org.au/jobs-careers/career-profiles-2

American Chemical Society – careers portal:

- > acs.org/content/acs/en/careers.html

Royal Society of Chemistry (US):

- > www.rsc.org/careers/future/career-options

Food Science

Faculty of Veterinary and Agricultural Science:

- > fvas.unimelb.edu.au/study/courses/master-of-food-science/overview

CSIRO - Food Science Division:

- > csiro.au/en/Research/FNF

Australian Institute of Food Science and Technology:

- > aifst.asn.au

Geology – refer to entry under Study Area: *Earth Sciences*

Pathology – refer to *Biomedicine Career Links*

Pharmacology – refer to *Biomedicine Career Links*

Physics/Mathematical Physics – refer to entry under Study Area: *Physical Sciences*

**EARTH SCIENCES**

- Atmospheric Science and Oceanography
- Geology

Atmospheric Science and Oceanography

Faculty site:

- > earthsci.unimelb.edu.au

Careers at the Meteorological Bureau:

- > bom.gov.au/careers

American Meteorological Society:

- > www.ametsoc.org/ams/index.cfm/education-careers/career-resources/

Careers with the Environment Protection Authority (EPA):

- > epa.vic.gov.au/about-us/careers

Geology

Faculty site:

- > earthsci.unimelb.edu.au

Earth Science Australia – Career as a Geologist:

- > earthsci.org/education/careers/geolo/geolo.html

Graduate Careers Australia (GCA) - Career Profiles in Minerals and Energy:

- > www.graduatecareers.com.au/careerplanningandresources/exploringyourcareeroptions/careerprofiles/mineralsandenergy/

The Australasian Institute of Mining and Metallurgy (The AusIMM):

- > [careers page ausimm.com.au/content/default.aspx?ID=147](http://careers.page.ausimm.com.au/content/default.aspx?ID=147)

**ENVIRONMENTAL SCIENCES**

- Ecology and Evolutionary Biology
- Environmental Science
- Geography

General

Environmental Jobs Network (EJN) website

Has useful reading materials and particularly excellent career publications:

- > environmentaljobs.com.au/resources/publications

Graduate Careers Australia (GCA) - Career Profiles in Environment

- > www.graduatecareers.com.au/careerplanningandresources/exploringyourcareeroptions/careerprofiles/environment/

See also:

Ecology and Evolutionary Biology

Faculty site:

- > botany.unimelb.edu.au/botany/courses/undergrad/ug_careerspec.html

Environmental Science

Careers with the Environment Protection Authority (EPA):

- > epa.vic.gov.au/about-us/careers

Geography

School of Geography:

- > geography.bespoke.unimelb.edu.au



ENGINEERING SYSTEMS

- Bioengineering systems
- Chemical Systems
- Civil Systems
- Computing and Software Systems
- Electrical Systems
- Geomatics
- Mechanical Systems

General

School of Engineering:

- > eng.unimelb.edu.au/study/careers

Download the *Careers Pathways Brochures* for information on career possibilities and planning for each of the specialist engineering areas.

Graduate Careers Australia (GCA) – Career Profiles in Engineering:

- > <http://www.graduatecareers.com.au/careerplanningandresources/exploringyourcareeroptions/careerprofiles/engineering/>

Engineers Australia:

- > engineersaustralia.org.au

Go to

- What is Engineering?
- For Young Engineers

See also:

Biomedical Engineering

Engineering in Medicine and Biology - Career Outcomes:

- > eng.unimelb.edu.au/study/degrees/bachelor-science-bioengineering/overview



INFORMATION TECHNOLOGY

- Computing and Software Systems
- Geomatics
- Informatics

General

Australian Computer Society:

- > acs.org.au

Go to

- Accredited Courses and Jobs
- Become a Member - Student

Graduate Careers Australia (GCA) – Career Profiles in Information and Communication Technologies:

- > <http://www.graduatecareers.com.au/careerplanningandresources/exploringyourcareeroptions/careerprofiles/informationandcommunicationtechnologies/>

See also: Informatics

US networking site for those seeking career in bioinformatics:

- > biohealthmatics.com

Geomatics – refer to entry under Study Area:

Engineering Systems

Computing and Software Systems – refer to entry under Study Area: *Engineering Systems*



LIFE SCIENCES

- Agricultural science
- Animal health and Disease
- Biochemistry and Molecular Biology
- Biotechnology
- Cell and Developmental Biology
- Animal Science and Management
- Ecology and Evolutionary Biology
- Food Science

Science

- Genetics
- Human Structure and Function
- Marine Biology
- Microbiology
- Infection and Immunology
- Neuroscience
- Pharmacology
- Physiology
- Plant Science
- Zoology

For study areas related to **Biomedical Sciences** – refer to *Career Links - Biomedicine*

Agricultural Science

Faculty of Veterinary and Agricultural Science

> fvas.unimelb.edu.au

(See Farming and Agriculture, Viticulture, Dairy, Horses)

Biochemistry and Molecular Biology – refer to entry under Study Area: *Chemical Sciences*

Biotechnology

Excellent descriptions of biotechnology sectors:

> ausbiotech.org

See also:

- Biotechnology Directory which lists companies in various biotechnology sectors
- Student Association for biotechnology career events and information

Animal Science and Management

Ecology and Evolutionary Biology – refer to entry under Study Area: *Environmental Sciences*

Food Science – refer to entry under Study Area: *Chemical Systems*

Marine Biology

Faculty site:

> botany.unimelb.edu.au/botany/courses/undergrad/ug_careerspec.html

Plant Science

Faculty site research centre:

> botany.unimelb.edu.au/botany/research/research_centres.html

Botanical Illustrator Profile (ABC)

> abc.net.au/acedayjobs/cooljobs/profiles/s2296870.htm

City Arborist Profile (ABC)

> abc.net.au/acedayjobs/cooljobs/profiles/s2326130.htm

Zoology

Department site

> www.zoology.unimelb.edu.au/careers/index.php

Reptile Keeper Profile (ABC)

> abc.net.au/acedayjobs/cooljobs/profiles/s2063278.htm

Aquaculturist Profile (ABC)

> abc.net.au/acedayjobs/cooljobs/profiles/s2599802.htm



MATHEMATICS AND STATISTICS

- Mathematical Physics
- Mathematics and Statistics

Mathematics and Statistics

Australian Mathematical Society

> austms.org.au

Go to: Careers within the Jobs section to find a list of other relevant careers sites

For **Operations Research**, check out the professional association site:

> asor.ms.unimelb.edu.au/career

Australian Mathematical Sciences Institute

> mathsadds.amsi.org.au



PHYSICAL SCIENCES

- Atmosphere and Ocean Sciences
- Mathematical Physics
- Physics

Physics/Mathematical Physics

Physics Today (US)

> jobs.physicstoday.org/jobseekers/resources/

Physics on the web

> physics.org

Institute of Physics – Your future with Physics

> iop.org/activity/careers/what/index.html

Biophysicist Profile (ABC)

> abc.net.au/acedayjobs/cooljobs/profiles/s2037586.htm

What You Can Do With Physics Physicist Profiles (US)

> aps.org/careers/physicists/profiles/index.cfm

Atmosphere and Ocean Sciences – refer to entry under Study Area: *Earth Sciences*



PSYCHOLOGICAL SCIENCES

- Psychology

Psychology

Graduate Careers Australia (GCA) - Career Profiles in Psychology

> www.graduatecareers.com.au/careerplanningandresources/exploringyourcareeroptions/careerprofiles/psychology/



RELATED FIELDS

Science Communication Australian Science Communicators:

> asc.asn.au

Center for Public Engagement with Science and Technology:

> aaas.org/pes/communicatingscience

A good summary of science communications applications (Note: the courses listed are under review, however the career information is still relevant as at September 2015):

> science.uwa.edu.au/courses/postgraduates/science_communication

Health Promotion

A good overview of the field on the Department of Health site. Go to 'Populations and Settings' to see what health promotion work entails:

> health.vic.gov.au/healthpromotion/index.htm

Department site also includes a list of health promotion professional associations:

> health.vic.gov.au/workforce/links.htm

Teaching

Faculty site:

> education.unimelb.edu.au/study_with_us/become_a_teacher