

A Career in

Geology, Environmental Science,
Geographical Information Systems (GIS),
Cartography, Geospatial , Marine Biology

Career opportunities are diverse for Graduates in the above fields.

Graduates can be involved in research in petroleum and resources and mining industries, land management and conservation.

Graduates in these fields are very employable. the wide-ranging nature of the subjects allows students to be adaptable and flexible, which are qualities that are in demand.

Geology

Graduates may specialise in:

- Mineral Exploration and Ore Deposits
- Petrology
- Geochemistry and Microstructure
- Regional Geology and Tectonics
- Regolith Geology and Remote Sensing
- Sedimentary and Petroleum Systems
- Education

Geology Occupations

- Hydrogeologist
- Environmental Geology
- Petroleum Geologist
- Economic Geologist
- Engineering Geologist
- Mining Geologist / Exploration Geologist
- Geochemist
- Geophysicst

Geographic Information Systems

Graduates may specialise in:

- Geodesy
- Photogrammetry
- Geographic Information Science
- Remote Sensing
- Cartography
- Education
-

Geographic Information Systems Occupations

- GIS Analyst / Officer
- GIS Technician / Developer
- GIS Data Specialist / Administrator
- GIS Specialist
- GIS Mapping Analyst / Support Analyst
- Engineering Technician
- GIS Application Specialist
- Remote Sensing Surveyor
- Project Manager
- System Administrator
- GIS Programmer / Cartographer
- GIS Asset Manager
- Aeronautical
- Agriculture
- Public Safety

Environmental Science

Graduates may specialise in:

- Consultancy
- Journalism
- Conservation
- Engineering & Urban & Regional Planning
- Ecotourism / Sports and Recreational
- Property Development
- Environmental Legal / Government / Policy

Environmental Science Occupations

Graduates may specialise in:

- Consultancy
- Environmental Research
- Fieldwork
- Journalism
- Conservation
- Policy Development
- Communications
- Environmental Health
- Planning and Development

UOW GRADUATE QUALITIES

Each Quality has its own page – see links below

[Informed](#) Have a sound knowledge of an area of study...

[Independent Learner](#) Engage with new ideas and ways of thinking...

[Problem Solver](#) Take on challenges and opportunities...

[Effective Communicator](#) Articulate ideas and convey them effectively...

[Responsible](#) Understand how decisions can affect others...

LABOUR MARKET INFORMATION

According to Graduate Careers Australia the median salary across these occupations is around \$53,000.

EMPLOYMENT PROSPECTS

According to the DEEWR Australian Job outlook (2010), job prospects for Graduates in these fields are currently average, and unemployment is below average.

Future job prospects to 2011–12 are expected to remain relatively stable.

Graduate Careers Australia – 2013 Employment Data

In full-time employment: (%) **74.4**

All fields of education: (%) **80.1**

MAIN EMPLOYERS

Graduates are employed across both the private and public sectors in private industry, government and tertiary institutions.

Areas in which employers hire are –

- Government
- Mining and Petroleum
- Research
- Consultancy
- Agriculture
- Education

PROFESSIONAL ASSOCIATIONS

Professional Associations can give you valuable industry specific information and professional development opportunities and open you up to a vast network of professionals in your chosen area of expertise.

These associations allow you to keep abreast of trends and developments in your fields and to check for any employment and networking opportunities.

Membership always looks good on your resume and is another talking point in an interview.

PROFESSIONAL ASSOCIATIONS

- **Australian Professional Organisations, Associations & Societies**
<http://www.journoz.com/ausproforgs.html>
- **Royal Australian Planning Institute**
<http://www.planning.org.au>
- **Association of Professional Engineers, Scientists, Managers Australia**
<http://www.apesma.com.au/>
- **Mapping Sciences Institute of Australia (MSIA)**
<http://www.mappingsciences.org.au>
- **Royal Institute of Chartered Surveyors**
<http://www.rics.org>

GRADUATE AND VACATION PROGRAMS

Graduate programs are available to final year students and recent graduates.

Applications can open as early as February/ March of each year.

Programs can be from one year to three years in duration.

Anglo Coal Australia

<http://www.anglocoal.com.au>

Boral

<http://www.boral.com.au/graduates>

GRD Minproc

<http://www.minproc.com.au/careers/graduates>

Schlumberger Oilfield Australia

<http://www.slb.com/careers>

Roads & Traffic Authority

<http://www.rta.nsw.gov.au/careers/graduates/index.html>

Department of Agriculture, Fisheries and Forestry

<http://www.affa.gov.au>

Graduate Opportunities

<http://www.graduateopportunities.com.au>

Department of Innovation, Industry Science and Research

<http://www.innovation.gov.au/>

JOB SEARCH ENGINES

General Sites

- <http://www.seek.com.au>
- <http://www.careerone.com.au>
- <http://mycareer.com.au/>

Science Alert

- <http://www.sciencealert.com.au>

Geology Jobs

- <http://www.geologyjobs.com.au>

Mining Jobs

- <http://www.miningemployment.com.au/jobs>

GIS Careers

<http://www.giscareers.com.au>

Spatial Jobs Online

<http://www.spatialjobs.com.au>

NRM Jobs

<http://www.nrmjobs.com.au>

FURTHER OPPORTUNITIES

Further your career with Post Graduate study –

Postgraduate study can enhance your career opportunities by allowing you to develop more specialised expertise in a particular area.

If you are considering careers in academia, or industry-based research and development, you will almost certainly need to complete honours and undertake a postgraduate research Degree (Masters or PhD).

Some management roles also require postgraduate coursework or research experience.

UOW Postgraduate 2013 -

<http://www.uow.edu.au/handbook/yr2013/pg/index.html>

Careers Advice

If you are having difficulty with outlining your skills or recording your achievements –

Attend a workshop at Careers Central
<http://www.uow.edu.au/careers>

or

Contact mardella@uow.edu.au to make an appointment to see your Faculty Careers Consultant.

REFERENCES

- A Chosen Career In – Curtin University
- DEEWR (2010) Employment Outlook for Health Care and Social Assistance <http://www.skillsinfo.gov.au>
- Job Outlook (2010) Overview Medical Laboratory Scientists
<http://joboutlook.gov.au/pages/occupation.aspx>
- My Future Occupational Information
- <http://myfuture.edu.au/services/>
- APESMA (2009) Professional Scientists Online Salary Survey Report. Alexandra . NSW