



| NSW Department of Education

## Natural Resource Manager / Environmental Officer / Park Ranger

Our world faces serious environmental challenges including pollution, climate change and species extinction. As an environmental scientist, you'll study, develop, implement, and advise on policies and plans for managing and protecting our natural resources.

### What environmental scientists do

Natural Resource Managers/ Restoration Officers/Park Rangers seek to solve problems such as pollution, conservation, sustainable futures and resource replenishment while preventing future ones. They take an interdisciplinary approach that combines ecology, chemistry, biology, and geology to assist organisations and government agencies to reduce their resource consumption and carbon footprint.

Environmental scientists perform fieldwork to collect soil, water or air samples. They test and analyse them for negative environmental indicators, consolidate their data and write reports. Their work advises policymakers and develop strategies to reduce or correct pollution.

Some environmental scientists focus on environmental regulations to protect people's health while others focus on regulations to minimise society's impact on the ecosystem. They may assess the risks new construction projects pose and make recommendations as to how to minimise their environmental impact. Many work to reclaim land and water that's been contaminated by pollution. Other environmental scientists work with industry to increase efficiency and limit their environmental impact.

### Will I get a job?

Very strong growth is predicted for this occupation in the next four years, with 5,700 new jobs in Australia, bringing the total to 31,600.

### What will I earn?

\$1,351–\$1,650 median full-time weekly salary (before tax, excluding super).

### You'll like this job if...

You have excellent written and verbal communication skills. You're sensitive and cooperative. You have creative critical thinking and problem solving skills. You have an aptitude for technical tasks. You're scientifically minded. You make decisions based on your personal values. You can work independently and as part of a team.

### A day in the life...

Work as an environmental scientist may involve these tasks:

- evaluate habitat, wildlife and fisheries needs
- formulate short and long-term management goals
- enforce laws and regulations to conserve and protect fish and wildlife
- carry out environmental impact assessments for a wide range of development projects
- assess and identify solutions to address negative environmental impact
- study and analyse pollution, atmospheric conditions, demographic characteristics, ecology, mineral, soil, and water samples
- develop conservation and management policies for biological resources, such as fish populations and forests
- establish standards and develop approaches for the control of pollution and the rehabilitation of areas disturbed by activities such as mining, felling and overgrazing
- participate in management planning by providing environmental information to stakeholders.

### VET qualifications

The following government-subsidised qualifications are available in NSW:

#### Diploma of Conservation and Land Management (AHC51116)

- Up to 2 years full-time
- Graduates employed or in further study: 93.2%\*

#### Diploma of Community Coordination and Facilitation (AHC51216)

- Up to 2 years full-time
- Graduates employed or in further study: 93.2%\*

#### Advanced Diploma of Conservation and Land Management (AHC60415)

- Up to 2 years full-time
- Graduates employed or in further study: 93.2%\*



To find out more regarding these related jobs, visit [education.nsw.gov.au/job-guides](http://education.nsw.gov.au/job-guides).

#### Information sources

Income: Australian Government Department of Employment, Australian Jobs Report 2017, Occupation Matrix. ANZSCO ID: 2211. Earnings can vary greatly depending on the skills and experience of the worker, and the demands of the role. Career trend: Australian Government Department of Employment 2017 employment projections to May 2022. Graduate outcomes: National Centre for Vocational Education Research. \*Approximately 6 months after they completed VET.

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### Roles to look for

- Conservation officer
- Policy officer
- Environmental Project manager
- Development assessment officers
- Environmental officer
- Technical officer
- Environmental health officer
- Park ranger
- Field officer
- Natural area restoration officer
- Bush regeneration officer
- Bio security officer

### Main employing industries

- Local Government
- Parks and Wildlife
- Catchment Management Authorities
- Natural Resource Management Bodies
- Agriculture, forestry and fishing
- Mining
- Electricity, gas, water, and waste services
- Professional, scientific and technical services
- Public administration and safety

### Other jobs you may like...

- Agricultural and forestry scientist