Lincoln University
Areas of Specialisation

Environment
Things grow when the conditions are right.

This is true for industry and agriculture, and it’s most certainly true for people. At Lincoln University, helping you to grow is what we’re all about.

And we encourage you to do it your way, with diverse learning options that fit your ambitions in an environment that allows you to flourish.

We partner you with industry to prepare you for the real world and to plant the seeds of a rewarding future.

So when the time comes, you’re ready to go out there and grow the future for yourself and others.

Welcome to Lincoln University. A place to grow.
Welcome to Canterbury

Our campus is located in the Lincoln township, a thriving village on the Canterbury plains.

Lincoln is small and very friendly. It boasts local pubs, great cafés and eateries, shops and even its own farmers and craft market.

Twenty minutes away is Ōtautahi Christchurch, which is transforming itself into one of the world’s most sustainable cities. Its rapidly evolving culture and energy makes it ideal for students.

And no more than a couple of hours from Ōtautahi Christchurch, Canterbury offers a huge range of exciting recreational options in areas of incredible natural beauty – you can bungy jump, hike, mountain bike, raft, surf, swim, play golf, shop, visit wineries and gardens, and so much more.

Choosing Lincoln University

At Lincoln, we’ve got a solid reputation for offering the finest, most industry-relevant learning programmes. And we’d like to make you a part of that.

As New Zealand’s leading land-based university, our specialised subject areas are all about harnessing the value of the land to help make the world a better place.

We’ve got strong industry ties to ensure that your learning lines up with what businesses need. Loads of our students gain work experience while they study, picking up real skills for the real world. You can’t put a price on that.

We’re the smallest university in New Zealand, which means a more personal learning environment, extra face time with lecturers and a friendly, village atmosphere.

Māori and Pasifika

Lincoln University is a great place for Māori and Pasifika students to gain an excellent qualification in a fun, friendly and supportive environment.

We offer a values based programme of manaaki (support) for Māori students called Whanake Ake that offers programme support, internships and practical work opportunities.

We’re also committed to helping to develop the next generation of Māori and Pasifika leaders by offering industry-relevant, career-orientated programmes with support from Te Manutaki - the Māori and Pasifika Team.

International students

Our students hail from around 80 different countries throughout the world. This makes Lincoln University a truly global network and a diverse, exciting place to be.

We hope you will join us soon.

Why Lincoln University?

At Lincoln University, we love our green and vibrant village full of like-minded people. There’s always something to get involved in and the vibe is super friendly. Here are just a few of the things available to you as a Lincoln student.

Join the club.

Looking for great ways to meet new people, broaden your horizons and have some fun? Join a club. The Lincoln University Students’ Association (LUSA) and the LU Gym oversee all of our clubs and organisations. We can fill you in on what’s out there or even help you set up your own club.

Help is here.

Every student needs a little help now and then. That’s why we have support services for every area of student life. And they’re there for you whenever you need them. Whether it’s budgeting advice, help with a physical or mental health problem or you just want someone friendly to talk to, we’re on your side.

LUSA. They’re for you.

The good people at the Lincoln University Students’ Association are all about making student life the best it can be. Independent from the university, they offer impartial advice and look after your student rights. LUSA is committed to the Treaty of Waitangi and they help represent our Māori students at Lincoln. They also organise awesome and affordable events from lunchtime sausage sizzles to the legendary end-of-year Lincoln University Garden Party.

Follow us and keep up to date

www.lincoln.ac.nz

Join the club.

1. Skiing at a local ski field only an hour and half’s drive from Ōtautahi Christchurch.
2. Local kapa haka group.
3. Recreational biking on Banks Peninsula.

Bridging the gap.

Urban meets rural at Lincoln, with students arriving from bustling cities, remote country farms and everywhere in between. They all find their place at New Zealand’s top land-based university and they tend to leave as lifelong friends.

Great care for little ones.

Our philosophy of helping people to grow also extends to ourfantastic childcare centres. We create an environment that promotes wonder and play as central to learning. Children of all cultures love it, which makes it much easier for their parents to concentrate on studying.

Stellar coffee.

Where there are university students, there are also great cafés. And in our case, they’re well worth a visit or two. If you’re after a coffee to get your brain going, head to our fantastic central café, Mrs O’s.

This way up.

Need a bit of pointing in the right direction? There are plenty of people on campus to talk to about career and employment advice. If you want to discuss job possibilities or need to find a part-time gig while you study, we’re here and ready to help.
## Lincoln at a glance

<table>
<thead>
<tr>
<th>Major links and collaborations with industry, iwi and research centres</th>
<th>18th rated for small universities in the world</th>
<th>Top 1.5% of all universities globally*</th>
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<tr>
<td>6% higher graduate employment rate</td>
<td>9th of 290 institutions for our contributions to the United Nations Sustainable Development goal of zero hunger*</td>
<td>Attracts urban &amp; rural students</td>
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<td>Genuine student staff interaction</td>
<td>Top 1.5% of all universities globally*</td>
<td>3rd oldest University in New Zealand</td>
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<td>Higher percentage of graduates compared to national average</td>
<td>8 farms</td>
<td>13 research centres</td>
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*Times Higher Education World University Rankings

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**:Areas of specialisation & qualifications:**

- **9th of 290 institutions for our contributions to the United Nations Sustainable Development goal of zero hunger***
- **6% higher graduate employment rate***
  
  *level 7 qualification – 3 years post study
- **3rd oldest University in New Zealand**
- **13 research centres**
Lincoln University's areas of specialisation

Our nine areas of specialisation are designed to help you tailor your learning to your ambitions. Each area contains a range of practical study programmes that you can mix and match to gain the breadth of knowledge and expertise needed for success in your chosen field.

Lincoln University areas of specialisation

- Agriculture, Horticulture and Viticulture
- Business
- Environment
- Food, Wine and Beer
- Landscape Architecture
- Property and Valuation
- Science
- Sport and Recreation
- Tourism

Studying environment with us means understanding the big picture in terms of sustainability, as well as focusing on some of the most complex issues facing the world today.

Our environmental graduates are in major demand, with many opportunities for well-paid employment in areas such as policy development, planning and impact assessment.

More and more companies are choosing to operate sustainably and minimise their impact on the environment, while raised environmental awareness and demand for greener production have increased employment opportunities in non-environmental industries.

Additionally, public and political interest in environmental issues, such as concerns over water allocation and climate change, is creating more opportunities for employment in environmental management.

At Lincoln, you’ll learn from some of the best researchers and lecturers in the field and gain access to the most up-to-date industry knowledge, which is very attractive to a broad range of employers.

Throughout the world, people are faced with an ever-widening range of serious concerns such as resource depletion, pollution of air and water, and global warming. Decisions made now will have implications on the sustainability of the natural environment and on economic, social and cultural development.

The purpose of this booklet

Our environment programmes will prepare you to play a part in meeting the major demand for university graduates in some of the world's most enduring professions.

This booklet outlines the qualifications within the specialisation and explores potential career outcomes, as well as providing valuable information on how to get where you want to be.

We cover pathways our graduates have taken, offer insights into the journeys of some of our current students, and throw some real-world facts into the mix.

Ultimately, this book will assist you in making the right choice to grow your future.

Environment

Qualifications

- Diploma in Natural Resources
- Bachelor of Environmental Management
- Bachelor of Environment and Society
- Bachelor of Environmental Management with Honours
- Bachelor of Environmental Policy & Planning with Honours
- Bachelor of Land & Property Management (Urban Valuation & Property Management major)
- Bachelor of Land & Property Management (Rural Valuation major)
- Bachelor of Science majoring in Environmental Science
- Graduate Certificate in Resource Studies
- Graduate Diploma in Resource Studies
- Postgraduate Certificate in Environmental Management
- Postgraduate Diploma in Environmental Management
- Postgraduate Diploma in Water Resource Management
- Master of Natural Resources Management & Ecological Engineering
- Master of Water Resource Management
- Master of Environmental Policy & Management
- Master of Pest Management
- Master of Planning
- PhD

To see the full range of qualifications on offer, visit www.lincoln.ac.nz
Bachelor of Environmental Management

Develop the skills needed to address the most pressing environmental issues of the twenty-first century, including climate change, biodiversity loss and freshwater quality. This degree is industry-proven, multi-disciplinary, and gives you the critical thinking and practical knowledge to fit an exciting range of industries.

Key features
- Learn the principles, strategies, tools and methods for effective environmental management, and be able to apply them in different contexts
- Understand the connections between social, economic and environmental issues
- Develop the knowledge and skills to practice professionally
- Receive a great academic background for gaining professional certification from the New Zealand Association for Resource Management.*

Career opportunities
You'll enjoy a range of employment opportunities such as working within the primary sector, resource management agencies, conservation and community organisations. Graduates pursue careers with local, regional and central government, industries that have impacts on the environment, and private consultancies and corporations with interest in development, sustainability, conservation and resource management.

Recommended preparation
- English*
- Geography/Social Studies*
- Biology
- Chemistry
- Computing
- Economics
- History/Classics
- Māori Studies
- Maths/Statistics
- Tourism

Entry requirements
University Entrance through NCEA, or an approved equivalent qualification
- If English is not your first language other entry requirements will apply. Learn more about English language requirements here: http://www.lincoln.ac.nz/International-Students/English-Language-Requirements/

Intake semesters
You can start in either:
- Semester 1 (late February)
- Semester 2 (mid July)*

There are also options for starting in summer semesters, although the range of courses available would be limited.
- Please obtain course advice if you are thinking about this option.

Additional major
There are many opportunities to add an additional major to the BEM, including in Water Management, Parks and Outdoor Recreation and Tourism. Please refer to the programme course advisor for further information.

Typical degree structure

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*Highly recommended subjects

*Please note: the Bachelor of Environmental Management is not in itself an accreditation. This is obtained via a combination of relevant degree and work experience.

Apply for any internship in any field for as much experience as possible – be prepared to get your hands dirty! Engage in faculty events and get involved in your Students’ Association.

Programme contacts
Sylvia Nissen
Course Advisor
E: sylvia.nissen@lincoln.ac.nz
P: 03 423 0505

Roy Montgomery
Course Advisor
E: roy.montgomery@lincoln.ac.nz
P: 03 423 0434

For more information or to apply visit www.lincoln.ac.nz or call 0800 10 60 10.
Is there any more pressing issue than how we live on the planet? Here’s your chance to gain the skills and the knowledge to make a positive difference to your community and the world. One day, your grandkids will thank you for having this degree.

Learn to analyse and solve global issues that really matter as our world changes.

This degree covers social, environmental and indigenous issues in our world. As these loom ever larger, the need for appropriately-skilled, critical thinkers with a broad, multi and interdisciplinary understanding is growing rapidly.

There’s flexibility too – you can include an additional major in areas like water management, parks and outdoor recreation, science, Māori studies, commerce, tourism, marketing or even wine.

**Key features**
- Gain the critical skills needed to understand and confront environmental issues
- Learn to create, promote and extend positive societal change
- Encounter diverse perspectives (including historical, psychological, sociological, geographical and philosophical)
- Develop the wide-ranging critical thinking skills in high demand with today’s employers.

**Career opportunities**
You’ll be highly sought-after in areas such as social and environmental planning, policy and development analysis, water management, resource planning, land use, and indigenous engagement.

**Entry requirements**
University Entrance through NCEA, or an approved equivalent qualification.
- If English is not your first language other entry requirements will apply. Learn more about English language requirements here: [http://www.lincoln.ac.nz/International-Students/English-Language-Requirements/](http://www.lincoln.ac.nz/International-Students/English-Language-Requirements/)

**Recommended preparation**
- Computing
- English
- Geography/Social Studies
- History/Classics
- Māori Studies

**Intake semesters**
You can start in either:
- Semester 1 (late February)
- Semester 2 (mid July)*

There are also options for starting in summer semesters, although the range of courses available would be limited.
*Please obtain course advice if you are thinking about this option.

**Additional major**
There may be an opportunity to add an additional major to your programme of study. Please refer to the programme course advisor for further information.

We offer the following additional majors:
- Accounting
- Economics
- Environmental Management
- Events Management
- Facilities Management
- Finance
- Global Business
- Marketing
- Parks and Outdoor Recreation
- Supply Chain Management
- Tourism Management
- Water Management

**Duration (Years)**
3

**Intake (Semesters)**
1 2

**Programme contacts**
Lloyd Carpenter
Course Advisor
E: lloyd.carpenter@lincoln.ac.nz
P: 03 423 0503

For more information or to apply visit [www.lincoln.ac.nz](http://www.lincoln.ac.nz) or call 0800 10 60 10.
Bachelor of Environmental Policy and Planning (with Honours)

Want to shape your environment – literally? Then here's the degree for you, and its accredited! This is your chance to specialise in urban or regional policy and planning, and prepare for the career you've always dreamed of.

The Bachelor of Environmental Policy and Planning (with Honours) blends theory and practice, to give you the skills and knowledge to address local opportunities and global challenges.

**Key features**

- Make connections with people who seek permission to carry out, prevent or modify a wide range of activities in different environmental contexts
- Learn to make recommendations about what people can do in the environment
- Craft various plans and strategies
- Gain a sound understanding of the complex relationships between gender, culture, ethnicity and equity and how they influence environmental policy and planning
- Be able to make evidence-based decisions in multi-disciplinary contexts
- Make a real contribution to processes that lead to sustainable outcomes
- Be accredited by the New Zealand Planning Institute (NZPI)*.

*The BEPP (Honours) is accredited by the New Zealand Planning Institute (NZPI), which provides professional recognition of the degree. This will enable you to be a student member of NZPI from the beginning of your studies and offers an accredited pathway to full member status.

**Career opportunities**

Professional planners are in high demand, whether it be in urban, environmental or policy planning. As a graduate planner with an accredited degree, you'll have many employment opportunities in planning at city, district, regional and central government levels – and the private sector too.

**Entry requirements**

University Entrance through NCEA, or an approved equivalent qualification. If English is not your first language other entry requirements will apply.


**Recommended preparation**

- Geography/Social Studies*
- English*
- Biology/Science
- Economics
- Agriculture/Horticulture
- History/Classics
- Maths/Statistics
- Māori Studies
- Chemistry
- Computing
- Tourism

*Highly recommended subjects

**Intake semesters**

You can start in either:
- Semester 1 (late February)
- Semester 2 (mid July)*

There are also options for starting in summer semesters, although the range of courses available would be limited.

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**Typical degree structure**

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Please note this degree structure is indicative only. A course advisor can assist you to select your electives and plan your degree.

**Programme contacts**

Roy Montgomery
Academic Co-ordinator
E: roy.montgomery@lincoln.ac.nz
P: 03 423 0434

For more information or to apply visit [www.lincoln.ac.nz](http://www.lincoln.ac.nz) or call 0800 10 60 10.
Bachelor of Science (Conservation and Ecology)

As our world changes, we need highly skilled conservation and ecology specialists to help protect our environment and tackle the big questions. If you want to get involved, step this way.

Career opportunities
You'll graduate ready for a career in ecology, conservation, nature restoration, and wildlife biology. And you'll be in demand with a wide range of organisations, including local and regional councils, the Department of Conservation, Predator Free New Zealand, Zero Invasive Predators, Fish and Game, the Ministry for the Environment, the Ministry for Primary Industries, Manaaki Whenua - Landcare Research, environmental consultancies, non-governmental conservation organisations, and universities.

Recommended preparation
- Biology*
- Chemistry
- Computing
- English*
- Geography/Social Studies
- Māori Studies
- Maths/Statistics*
- PE/Outdoor Education

*Highly recommended subjects

Intake semesters
You can start in either:
- Semester 1 (late February)
- Semester 2 (mid July)

There are also options for starting in summer semesters, although the range of courses available would be limited.

Entry requirements
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Additional major
There may be an opportunity to add an additional major to your programme of study. Please refer to the programme course advisor for further information.

Key features
- Gain the scientific understanding to help address major conservation issues
- Receive a solid grounding in biology, ecology, geology, plant and animal sciences
- Participate in hands-on field trips and laboratories to consolidate your learning from weekly lectures
- Be taught by world-class scientists who are spearheading research into conservation and ecology.

Recommended preparation
- Biology*
- Chemistry
- Computing
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- Geography/Social Studies
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Additional major
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The Bachelor of Science (Environmental Science) is a really well-rounded degree, with a lot of flexibility to focus on the areas that you’re interested in (for example, soils and water are my key interests). The degree has set me up really well to launch me into my career.

Jennifer Tregurtha
Bachelor of Science (Environmental Science)
Accounting
Develop the accounting-based knowledge and skills to pursue a wide variety of business careers. This major will massively increase your employability, especially when coupled with a core business major. Learn to evaluate accounting issues in a business environment, use the latest tools and techniques to solve accounting problems and prepare and analyse accounting and financial reports.

Courses
The Accounting major consists of eight courses: two 100-level courses, four 200-level courses and two 300-level courses. Courses selected at the 300-level for the major cannot be applied to any other qualification.

Economics
Use economics to solve real-world problems and gain the expertise to help address a range of global issues. You’ll develop the ability to quantitatively analyse New Zealand value chains (from primary production to end consumers), a skill that is highly sought-after by employers.

Courses
The Economics major consists of eight courses: two 100-level courses, three 200-level courses and three 300-level courses. Courses selected at the 300-level for the major cannot be applied to any other qualification.

Environmental Management
This major is strongly aligned with Agriculture, Environmental Science, Tourism Management, Land and Property Management, Landscape Architecture and Recreation Management. If you’re studying for one of these degrees, this major will provide you with essential environmental management skills, leading to employment in the profession.

The public and political interest in environmental issues across a broad range of industries, along with increased media coverage, is likely to increase the importance of the environment in employers’ minds and create more careers for people with environmental management skills.

Courses
This major consists of eight courses, which is one-third of a 24-course degree. At least three of the courses are at the 300-level and no more than three can be taken at the 100-level. Courses selected at the 300-level cannot be applied to any other qualification.

Event Management
Gain the expertise to pursue a career as an event professional in a range of industries. Event management is a growing area of specialisation at tertiary institutions throughout Australasia and the world. The significance of events has spread beyond the traditional realm of tourism, sport and the arts into the corporate world and a range of other sectors, including hospitality and wine and food production. Corporations, organisations and local councils appreciate the value that events and festivals bring to businesses and local economies as they help to facilitate their role in encouraging community development and engagement.

Courses
The Event Management major consists of eight courses – three 100-level courses, two 200-level courses and three 300-level courses. Courses selected at the 300-level cannot be applied to any other qualification.

Finance
Finance lies at the heart of business operations and is a dynamic field within the modern global economy. Develop the advanced knowledge and skills to become a finance expert so that when you join the workforce, you can effectively adapt to a rapidly changing business environment. As New Zealand becomes more dependent on global value chains, greater numbers of university graduates will be required in many industries.

Courses
The Finance major consists of eight courses: three 100-level courses, two 200-level courses and three 300-level courses. Courses selected at the 300-level for the major cannot be applied to any other qualification.

Global Business
Learn the management techniques required to run global organisations. Develop leadership and strategy skills and have the option of specialising in international marketing, international economics, or business sustainability management.

An emphasis on internationalisation of management, as well as management functions in multinational corporations, will offer employment opportunities all over the world.

Courses
The Global Business major consists of eight courses: two 100-level courses, three 200-level courses and three 300-level courses. Courses selected at the 300-level for the major cannot be applied to any other qualification.

Marketing
Develop the expertise to make the right marketing decisions for businesses, consumers, society and the environment. Become aware of the profession’s social, ethical, moral and legal standards and their impact on society. You’ll learn the concepts and tools to be a productive and responsible marketing professional.

Courses
The Marketing major consists of seven courses: two 100-level courses, two 200-level courses and three 300-level courses. Courses selected at the 300-level for the major cannot be applied to any other qualification.

Parks and Outdoor Recreation
The major in Parks and Outdoor Recreation is a multidisciplinary programme bringing together areas of social and ecological science to give a holistic approach to this field of study, equipping students for public and private sector roles in parks and reserves management, visitor services, recreation policy and planning or nature-based tourism.

Courses
This major consists of eight courses, which is one-third of a 24-course degree. Courses selected at the 300-level cannot be applied to any other qualification.

DOC Scholarship
The Department of Conservation (DOC) is offering a number of $5,000 scholarships to talented Lincoln bachelor’s degree students undertaking this major. DOC is looking for qualified individuals who can think and plan strategically for tourism on a landscape scale. DOC is also interested in graduates with multi-disciplinary skills in general management, working with iwi, whānau and hapū, visitor and facilities management and partnering skills to help DOC work with others to grow conservation. For more information and application details, visit lincoln.ac.nz/scholarships.

Supply Chain Management
New Zealand is becoming more dependent on long, complex and vulnerable global supply chains for both imports and exports. Gain a solid grounding in sustainable supply chain practices and the legal framework of global business and prepare to work in supply chain managerial roles within any land-based, manufacturing or service industry. Supply chain management is taught from a systems perspective, to add value to producers, distributors and consumers.

Courses
The Supply Chain Management major consists of eight courses, which is one-third of a 24-course degree. Courses selected at the 300-level for the major cannot be applied to any other qualification.

Tourism Management
A knowledge of tourism adds an extra level of expertise if you would like to work in a range of organisations charged with protecting the physical environment. To be more effective, planners, designers and developers need to understand the behaviour of tourists. Understanding the commercial differences of tourism compared with other sectors of the economy will be invaluable if you’re studying for a business degree.

Courses
The Tourism Management major consists of eight courses from the Bachelor of Tourism Management (75 credits). In addition, there are a number of ‘soft core’ options (30 credits). Courses selected at the 300-level cannot be applied to any other qualification.

Water Management
Water management is a particular challenge for New Zealand, given that the nation’s primary and tourism sectors are underpinned by high-quality fresh water and ecologically sustainable waterways. Water quality standards are diminishing in quality and water is over-allocated in many sub-regions. Develop the water management knowledge and skills to enter a career in the water, land or environmental management sector.

Courses
The Water Management major consists of eight courses, which is one-third of a 24-course degree. Courses selected at the 300-level for the major cannot be applied to any other qualification.

Studying for a bachelor’s degree? You can include an additional major, which will supplement your degree programme with meaningful study in a complementary discipline.
Choose an additional major

If you’re studying for a Lincoln University bachelor’s degree, you may be able to include an additional major, which will add depth to your qualification. Please speak to your course advisor to ensure you pick up the right courses for you.

This table will help you to work out which additional majors you can study within your chosen degree.

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✓ Additional major may be available  
♦ Seek course advice  
☐ Additional major is included in degree

Careers

Employers are always on the hunt for Lincoln graduates and our degrees open doors. Learn about some of the career opportunities that could come knocking once you’ve finished studying.
Agricultural/Horticultural Consultant
Kaitohutohu Ahuwhenua
Agricultural/horticultural consultants advise farmers, growers and organisations on business, production and land management solutions.

Pay
Pay for agricultural/horticultural consultants varies depending on experience and whether they work in the agricultural/horticultural sector. 
- Agricultural/horticultural consultants with less than five years’ experience usually earn between $50,000 and $85,000 a year.
- Agricultural/horticultural consultants with more than five years' experience usually earn between $85,000 and $150,000.
- Self-employed agricultural/horticultural consultants: hourly rates range from $100 to over $150 an hour. Some earn more than $150,000 a year.

What you will do
Agricultural/horticultural consultants may do or some of all the following:
- Advise farmers and growers on how to improve the profitability, efficiency and sustainability of farm management systems
- Assist farmers and growers in developing and implementing business plans
- Advise on or oversee budgets, cashflow and production targets for clients
- Research and report on factors that affect crop production, pasture growth, and animal breeding
- Advise farmers and growers on fertiliser and nutrient use to improve productivity and environmental performance
- Investigate, plan and advise on methods for coping with the effects of pests and diseases and natural disasters such as floods
- Provide advice on compliance with current legislation such as the Resource Management Act
- Prepare property and environmental management reports for clients.

Working conditions
Agricultural/horticultural consultants:
- May work irregular and long hours
- Work in offices and on clients' farms or orchards
- Work in all weather conditions
- May travel within New Zealand or overseas to attend conferences or visit clients, factories, banks or export marketing firms.

Entry requirements
To become an agricultural/horticultural consultant you usually need a bachelor's degree in one of the following:
- Agricultural or horticultural science
- Commerce
- Agribusiness
- Environmental science.
A driver's licence is usually required.

Personal requirements
Agricultural/horticultural consultants need to be:
- Able to build and maintain relationships with a wide range of people
- Good communicators, with listening and public speaking skills
- Hard-working, friendly, patient and able to inspire confidence
- Good negotiators
- Skilled in analysis and decision making
- Skilled in planning, organising and problem solving
- Able to work under pressure with good time management skills.

What are the chances of getting a job?
Shortage of agricultural/horticultural consultants
Chances of getting a job as an agricultural/horticultural consultant are good due to:
- Growth in the agricultural and horticultural sectors
- More consultants being required to service clients because of growth and change within the sectors
- A shortage of skilled workers
- Increased vacancies because of retirement and promotion.

Demand is likely to increase as farming and orchard systems become more sophisticated and farmers will need independent expert advice from agricultural/horticultural consultants.

Global trends influencing demand for specialist consultants
In the future, jobs in the agricultural and horticultural sectors will be more specialised than before. Reasons for this include:
- Emerging, sophisticated technologies
- A growing market in Asia for products
- Critical issues around food safety, biosecurity, sustainability, the environment and animal welfare.
Therefore, there is high demand for skilled consultants who can provide independent, specialist advice and analysis in these specialist areas:
- Nutrient budgeting and planning
- Farm and orchard environmental planning
- Making resource consent applications
- Water quality monitoring and laboratory testing
- Wastewater and effluent testing and application modelling
- Geographic information system (GIS) mapping.

Types of employers varied
Agricultural/horticultural consultants can work for a range of organisations, including:
- Agricultural and/or horticultural consultancy firms
- Government agencies such as Pāmu (Landcorp)
- Iwi and Māori farming businesses
- Large businesses that own, manage or lease orchards or farms
- Rural servicing firms and fertilizer or dairy companies
- Specialist agricultural companies such as those involved in animal breeding or research.

Many agricultural/horticultural consultants are self-employed.

Energy/Carbon Auditor
Kaitatari Puingao/Waro
Energy/carbon auditors assess the amount of energy used and carbon produced by organisations. They also recommend ways to increase energy efficiency.

Pay
Pay for energy/carbon auditors varies depending on qualifications and experience.
- Energy/carbon auditors with up to five years’ experience usually earn between $60,000 and $80,000 a year.
- Energy/carbon auditors with five or more years’ experience and accreditation can earn from $80,000 to $200,000.

What you will do
Energy/carbon auditors may do some or all of the following:
- Inspect buildings and carry out energy surveys/audits
- Ensure accurate records are kept and energy monitoring data is collected regularly
- Develop methods to reduce energy use at buildings and organisations, and help put these methods into practice
- Set up procedures to monitor and assess carbon emissions
- Develop methods to reduce carbon emissions
- Review the effectiveness of energy and carbon reduction measures and verify any savings made from these changes
- Write reports and present findings to clients
- Provide technical and practical advice, and offer training on energy efficiency
- Provide technical support to mechanical and electrical design engineers.

What are the chances of getting a job?
Roles expected to increase for energy/carbon auditors
Opportunities for energy/carbon auditors are expected to grow due to:
- Government targets to reduce energy and carbon emissions
- The high cost of energy
- Climate change.

Good chances for qualified, experienced energy/carbon auditors
Your chances of securing an entry-level job are best with relevant qualifications and work experience. However, finding work can be competitive as staff turnover is low and vacancies are limited.

Types of employers vary
Energy/carbon auditors may work for:
- Energy management businesses and organisations
- City councils
- Companies that deliver specific services such as heating, ventilation, air-conditioning and lighting systems
- Large organisations that use a lot of energy, such as hospitals.

Energy/carbon auditors may also be self-employed.

Useful experience
Useful experience for energy/carbon auditors includes:
- Building and construction work
- Health energy assessment or insulation work
- Work involving accounting or finance
- Work servicing building systems such as heating and ventilation systems
- Work in factories.
Environmental Scientist
Kaipūtaiao Ao Tūroa

Environmental scientists study the environment and how plants, animals and other organisms are affected by it. They also study external influences, such as pollutants, and advise on how to avoid or reduce harmful effects on the environment.

Pay
Pay for environmental scientists varies depending on experience and where they work.
- Environmental scientists usually earn between $49,000 and $85,000 a year, with an average of $64,000.
- Environmental scientists with a postdoctoral degree who work at research institutes can earn from $65,000 to $130,000.

What you will do
Environmental scientists may do some or all of the following:
- Study plants and animals in their environment
- Assess sources of soil, water and air pollution, and develop ways to control these
- Use computer modelling techniques to predict future events in the ecosystem
- Study soil types and suitable fertilisers
- Study how to alter soils to suit different plants
- Develop efficient irrigation, drainage and waste disposal methods
- Plan and run field studies and experiments
- Prepare reports on the environmental impacts of activities such as mining, forestry and agriculture
- Report results of studies in science journals and in conferences
- Study and develop environmental policies
- Provide technical advice to clients or local government authorities
- Prepare applications for resource consent on behalf of clients, in compliance with the Resource Management Act.

Working conditions
Environmental scientists:
- Usually work regular business hours, but may be required to work weekends and evenings to meet deadlines
- Usually work in offices, but may work outdoors when collecting samples or visiting sites
- May travel nationally and overseas to work on projects.

Entry requirements
To become an environmental scientist you usually need to have a Master’s degree in one of the following areas, depending on your specialisation:
- Environmental science or a related area such as chemistry or engineering
- Ecology or a related area such as botany or zoology
- Soil science or a related discipline such as earth science.

A PhD is usually required for research-based positions.

Personal requirements
Environmental scientists need to be:
- Accurate
- Able to make good judgements
- Good at problem solving
- Good at planning and organising
- Good at communicating
- Creative, so they can develop new ideas.

What are the chances of getting a job?
Shortage of environmental scientists
Environmental research scientist appears on Immigration New Zealand’s long-term skill shortage list. This means the Government is actively encouraging skilled environmental scientists from overseas to work in New Zealand.

This shortage is due to increasing demand for environmental research because of increased pressure on the environment due to population growth, urban expansion and the effects of industry.

According to the Census, 1,767 environmental scientists worked in New Zealand in 2018.

Good opportunities in a range of industries
There are good opportunities for scientists with a policy or evaluation focus to work for primary sector industries on land or at sea, regional and local councils, and government environmental ministries and agencies.

There is high demand for environmental scientists who can monitor the impacts of industrial activities on the environment, manage resource consents, provide advice on minimising environmental footprints, and consult and engage with stakeholders.

Environmental scientists who do academic research mainly work for:
- Crown research institutes or government departments such as Landcare Research or Department of Conservation
- Universities

Environmental scientists who do policy or evaluation work may be employed by:
- Local authorities – regional, city and district councils
- Government departments and Crown entities – for example, Environmental Protection Authority, Ministry for Primary Industries, Ministry for the Environment
- Private consultancies – for example, those doing environmental assessments for resource consents
- Private companies – for example, fertiliser, insecticide and pesticide manufacturing companies, where environmental scientists check toxicity levels.

Technical Writer
Kaitito Hangarau

Technical writers create content for printed and online media, such as user guides, manuals, intranet and website pages, and present it in a way that can be easily accessed and understood.

Pay
Pay for technical writers varies depending on their skills, experience, and the type and size of organisation they work for.
- New technical writers can expect to earn about $45,000 to $60,000 a year.
- Technical writers with one to four years’ experience earn between $60,000 and $100,000.
- Experienced technical writers in management positions can earn up to $130,000.

Self-employed technical writers usually earn between $35 and $120 an hour.

What you will do
Technical writers may do some or all of the following:
- Work with managers, developers, users and other interested parties to identify their information needs
- Plan, research and create clear, accurate content such as instructions, standard operating procedures, forms and policies
- Create content in various forms such as video, web, audio, hard copy and interactive eLearning
- Analyse work tasks, and manage documentation projects
- Design the layout and structure of documents
- Create language and style guides
- Design and draw business, scientific or technical diagrams/charts
- Edit work of other writers for consistency and clarity
- Test content for its usability
- Manage translations.

Working conditions
Technical writers:
- Usually work regular business hours, but may be required to work long or irregular hours depending on project deadlines
- Usually work from offices but may work from home if self-employed.

Entry requirements
There are no specific entry requirements to become a technical writer. However, excellent writing skills are required and most employers look for people with a tertiary qualification such as an English degree or certificate in technical communication.

Tertiary qualifications in subjects such as science, engineering, electronics, computer science or commerce are valuable for technical writers in industries where this subject knowledge is required.

Personal requirements
Technical writers need to be:
- Excellent communicators, both in writing and orally
- Quick learners
- Approachable, and able to relate to a wide variety of people
- Good at planning, time management and project management
- Methodical, persistent and determined.

What are the chances of getting a job?
Strong demand for technical writers
Demand for technical writers is strong due to:
- Companies and organisations needing to have properly documented policies, processes and procedures
- The large number of computer software products and electronic products that need easy-to-understand documentation
- Growing intranet and internet use, which has created more job opportunities for people with technical writing skills
- Growing recognition of the value of clear and concise information, especially online.

Your chances of securing a job are best if you join a professional organisation such as TechCommNZ, create wide networks, and build up a good reputation.

Types of employers varied
Employers of technical writers include:
- Private companies
- Government agencies
- Computer companies and software developers
- Electronics and equipment manufacturers.

Many technical writers are self-employed and work on contract. There are around 1000 people employed as technical writers in New Zealand.

This information is a guide only.
Last updated 15 April 2020
Urban/Regional Planner
Kaiwhakamahere Taone/Rohe

Urban/regional planners develop and administer plans for physical, environmental, social and economic development of urban and rural areas.

Pay
Pay for urban/regional planners varies depending on their skills and experience.

- Planners with up to five years’ experience usually earn between $60,000 and $71,000 a year.
- Senior planners with up to ten years’ experience usually earn between $90,000 and $105,000.
- Principal planners, or planners in a leadership role, usually earn between $96,000 and $190,000.

What you will do
Urban/regional planners may do some or all of the following:
- Plan and design buildings, streets, subdivisions, parks, reserves or sports facilities
- Prepare plans up to 20 years ahead
- Examine how areas are developing and the effect of proposed developments
- Collect and analyse economic, social and environmental data
- Manage projects, including communications strategies
- Write and present reports on behalf of councils, companies, applicants and submitters at resource consent, environmental and other hearings.

Working conditions
Urban/regional planners:
- Usually work regular business hours, while studying
- May travel nationally and overseas to developments sites
- Attend public meetings, conferences and other hearings.

Entry requirements
To become an urban/regional planner you usually need to have a degree listed on the New Zealand Planning Institute’s accredited course list, such as a Master of Planning.

Personal requirements
Urban/regional planners need to be:
- Able to relate to a wide range of people
- Strong communicators
- Good at risk analysis
- Able to handle conflict
- Open-minded
- Persuasive.

What are the chances of getting a job?
Strong demand for urban/regional planners
Chances of getting work as an urban/regional planner are good due to strong demand for workers. One reason for this is the high level of population growth in New Zealand’s main centres. Opportunities for employment are greater in Auckland than in the rest of New Zealand. According to a New Zealand Planning Institute Survey, 52% of employers who responded reported difficulties in filling vacancies for urban/regional planners. There are approximately 2,500 urban/regional planners working across New Zealand.

Useful to build planning experience while studying
Building up experience while you study can increase your chances of getting planning work once you graduate. Doing work experience or internships also helps you meet people in the planning industry.

Types of employers varied
Urban/regional planners may work for:
- Local authorities such as city and district councils
- Government departments
- Private consulting firms
- Universities.

Zoologist
Kaiputaia Kararehe

Zoologists study animals and their behaviour in the wild or in captivity, and how they interact with other species and their environments.

Pay
Pay for zoologists varies depending on qualifications, experience and where they work.

- Zoologists working in universities:
  - Zoology assistant lecturers and junior researchers usually earn between $38,000 and $52,000 a year.
  - Lecturers in zoology and research officers usually earn between $56,000 and $61,000 a year.
  - Zoology professors can earn between $124,000 and $185,000.

Zoologists working in government research agencies:
- Zoology technicians usually earn between $61,000 and $117,000.
- Zoology scientists can earn between $117,000 and $140,000.
- Zoologists working in the private sector may earn more than this.

What you will do
Zoologists may do some or all of the following:
- Study animals and their behaviour
- Study the relationship between animals and their environment
- Do research into areas such as pest control or conservation
- Do laboratory work and fieldwork
- Manage the care of animals in research centres, zoos and aquariums
- Teach university students
- Write reports and scientific articles
- Give talks to community groups and local authorities
- Advise local authorities and iwi on how to manage animal species sustainably.

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Types of employers varied
Urban/regional planners may work for:
- Local authorities such as city and district councils
- Government departments
- Private consulting firms
- Universities.

Zoologists need to be:
- Skilled at writing and presenting information
- Able to cope with experimenting on live animals.

Working conditions
Zoologists:
- Usually work regular business hours, but may also work evenings and weekends
- Work in laboratories, offices, and outdoors in areas such as national parks and wildlife reserves
- May work with drugs and chemicals and be exposed to animal diseases
- May work outdoors in all weather conditions
- Often travel locally, nationally and overseas to work on projects or to attend conferences.

Entry requirements
To become a zoologist, you need to have a Bachelor of Science majoring in any of the following subjects:
- Ecology
- Zoology
- Microbiology
- Biotechnology
- Molecular biology
- Postgraduate qualifications, such as a Master’s degree or PhD, are recommended for those wanting to work in senior research roles.

For research-based work at the technician level, a bachelor’s degree is required. For postgraduate research, senior research roles are good for zoology graduates in environmental research who wish to pursue a PhD. Zoologists working in government research agencies usually earn between $38,000 and $52,000 a year. Senior zoology technicians usually earn between $61,000 and $117,000. Senior zoology scientists can earn between $117,000 and $140,000. Zoologists working in the private sector may earn more than this.

Types of employers varied
Zoologists can work for:
- Crown research institutes (CRIs) such as NIWA
- Government agencies such as the Department of Conservation
- Consultancies, including those studying environmental impacts of building developments
- Private companies, including those doing pest control
- Regional councils
- Museums
- Universities.

What are the chances of getting a job?
Small numbers of zoologists
There are limited opportunities for zoologists and roles are mainly within universities or crown research institutes. According to Stats NZ, the number of zoologists in New Zealand is around 100. Zoology graduates tend to use their qualification in a variety of applied zoology roles in fields such as teaching, environmental research and pharmaceutical research.

Good opportunities for zoologists in environmental research
Job opportunities for zoologists in environmental research are good for zoology graduates due to an increased need to protect natural resources and a shortage of people with suitable qualifications.

Environmental research scientist
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Gita Suwandi
Indonesia
Master of Planning

Gita Suwandi is using her Master of Planning degree to climb the career ladder and help her country at the same time. “Urban and regional planning are my background, as I work for the Indonesian Government in the Disaster Management Authority,” she says.

“My degree has led to a higher level or position in my office. I also have the opportunity to promote a better future through the disaster management planning skills I have learned from the courses in this major.”

She especially enjoyed the environmental planning and management aspects of her degree.

“These were challenging courses, but I learned more from them at the same time. I think this was the most valuable experience during my studies at Lincoln.”

Gita describes the Lincoln lecturers and staff as very helpful. “They always try their best to support me and fulfil my needs,” she says. “They give me a lot of attention as well as tolerance because I am an international student and they understand I have language, culture, and education system differences.”

Academically, working on a group project was her most memorable experience. “I learned that to succeed, we have to build strong relationships within the group, and self-study and time management are critical.”

Gita became a leader in the Indonesian Student Association at Lincoln and in the Canterbury region, as well as promoting the university to Indonesian students.

“Lincoln really helped me to grow and develop, both academically and socially,” she says. “It gave me the opportunity to meet new families and friends from New Zealand and other countries.”

Growing careers

At Lincoln, growing the future is what we’re all about. Meet some of our current and past students, who are well on their way to achieving their dreams.
Graduate pathways

Katie Collins
Bachelor of Environmental Management; Master of Resource Studies
Specialist, Water, Environmental Strategy and Policy Department, Auckland Council

Even though Katie Collins is from Auckland, having attended Diocesan School for Girls, her mother, aunt and two brothers also studied at Lincoln University. With a natural love of the outdoors, Katie was involved in strong, environmentally-focused educational programmes at school. “These programmes were where my interest in learning more about the environment was fostered, which led me to studying for the Bachelor of Environmental Management.”

While at Lincoln, Katie’s interest in the environment turned specifically towards water usage, quality and quantity, and freshwater ecology. “I’m also interested in how Māori cultural values interact with ecology and natural resource planning. Upon completing my thesis, I applied for jobs in freshwater policy and monitoring, and my qualifications helped me to land my current role.”

Now a freshwater specialist at Auckland Council, Katie has worked with the Auckland Plan Natural Environment Chapter, Unitary Plan and on the National Policy Statement for Freshwater Management in Auckland.

She enjoyed Lincoln’s practical, real world curriculum and working as an elected official of the Lincoln University Students’ Association (LUSA).

During her time at Lincoln, Katie became especially interested in water usage, quality and quantity, and freshwater ecology.

I’m also interested in how Māori cultural values interact with ecology and natural resource planning. Upon completing my thesis, I applied for jobs in freshwater policy and monitoring, and my qualifications helped me to land my current role.

Jessica Samuels
Bachelor of Environmental Management and Planning
Planner, Beca

Jessica Samuels is the first person in her family to go to university. She was introduced to Lincoln University when a Liaison Officer visited her high school, Matamata College.

Jess chose Lincoln for several reasons: good reputation, small class size and pretty campus, but most importantly, because of the university’s involvement in science and environmental planning courses. “Planning is a great career for people who want to be involved in shaping New Zealand, as it incorporates environmental, social, cultural and economic factors that influence the way we live. If you enjoy Geography, Science or English, planning conjoins these subjects to make decisions about the urban and rural environments.”

While studying at Lincoln, and before becoming a Planner at Beca, Jess took on four internships over the summer and winter breaks. Two of these were with NIWA on an eel restoration project in the Waikato River, one was with the Raukawa Trust, and the fourth was with the Waikato River Authority.

“Apply for any internship in any field for as much experience as possible - be prepared to get your hands dirty,” Jess says.

At Lincoln, Jessica remembers being encouraged to succeed and having the support of lecturers and friends from all walks of life.

Steven Pawson
Bachelor of Parks, Recreation and Tourism Management; Bachelor of Science (Conservation and Ecology); Master of Applied Science
Senior Lecturer in Entomology, University of Canterbury

Stephen Pawson attended Inglewood High School, and was initially drawn to Lincoln University to study for the Bachelor of Parks, Recreation and Tourism Management. While he was studying, he discovered an interest in conservation and ecology and opted to conjointly study a Bachelor of Science.

“The conjoint programme was very valuable, in that it gave huge breadth to my undergraduate studies, which has given me many skills to draw on in my current career.”

Stephen furthered his study at Lincoln University with a Master of Applied Science, followed by a PhD. He landed a role as an Entomology Research Leader with Scion, where he managed a research team working on forest pest species.

He is currently a Senior Lecturer in Entomology at the University of Canterbury.

Reflecting on the importance of Lincoln University’s “small and intimate” campus, Stephen recommends that students experience the culture by living in the Lincoln township, or nearby.
Practical information

Many of our programmes have a practical work component. It's considered a crucial aspect of study for some courses and offers experiences in a broad range of relevant careers. You'll normally carry out practical work during summer breaks and it will be closely linked to the lecture material in your study programme. While it's your responsibility to find practical work placements, the Practical Work Coordinator can help by putting you in touch with employers who are already connected with us. You're strongly encouraged to seek out a diverse range of practical work opportunities.

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Practical work

Go beyond textbooks and the classroom and enjoy a range of practical learning opportunities as part of your degree.

Why practical work?

Practical work will:
• Complement your studies and enhance the marketability of your qualification
• Give you a chance to experience new learning environments
• Expose you to the appropriate industry environment, including its technical, economic and social environments
• Teach you to perform a range of tasks specific to the industry environment including skills in observation, information gathering, data analysis, and report writing
• Equip you with more knowledge of industry employment opportunities.

I’m a hands-on person, so practical work gives me a better understanding of the course content.

Kylie Lyders

For more information, please contact the Practical Work Coordinator at practicalwork@lincoln.ac.nz or +64 3 423 0061.

Ask for a practical work handbook.
Key Dates

23
Friday 23
July 2021
Open Day

01
Sunday 1
August 2021
Halls application opens

15
Sunday 15
August 2021
LU scholarships close

01
Friday 1
October 2021
Halls application closes

01
Friday 1
October 2021
2022 enrolments open

15
Monday 15
November 2021
Summer school begins

16
Wednesday 16
February 2022*
Orientation begins

16
Wednesday 16
February 2022*
Halls move in date

21
Monday 21
February 2022*
Semester 01 begins

Apply and enrol

Ready. Set. Grow.

Apply and enrol at
www.lincoln.ac.nz/apply
Student Liaison Officers

Our Student Liaison team will be the first point of contact for you as a future student. They can give you all the information you need and answer any questions you may have about course planning, applying, or life at Lincoln, or they can refer you to an expert. The Student Liaison team also visits secondary schools and attends career expos in all regions.

Campus Tours

We offer personalised guided campus tours with an individualised itinerary so you can experience the parts of campus that interest you the most. Tours take about 60 minutes.

To book your tour, get in touch with one of our Student Liaison Officers. Send us your contact details along with a list of your interests and we’ll be in touch.

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Follow us and keep up to date

We offer guided tours and campus visits to help you get to know Lincoln University. Our Student Liaison Officers will assist you in all aspects of the application process. They can answer any questions you have about Lincoln University, whether you’re planning your future studies or simply want to learn more about what Lincoln University has to offer.

To book your tour, please contact our Student Liaison Officers. You can also send us your contact details along with a list of your interests, and we’ll be in touch.

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