



**Lincoln  
University**  
*Te Whare Wānaka o Aoraki*

# *Postgraduate Prospectus*



**CHRISTCHURCH ■ NEW ZEALAND**



Cover photo: Kathrin Affeld taking samples for her PhD in Ecology and Conservation (see page 29 for details)

For more information:

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postgraduate@lincoln.ac.nz  
www.lincoln.ac.nz



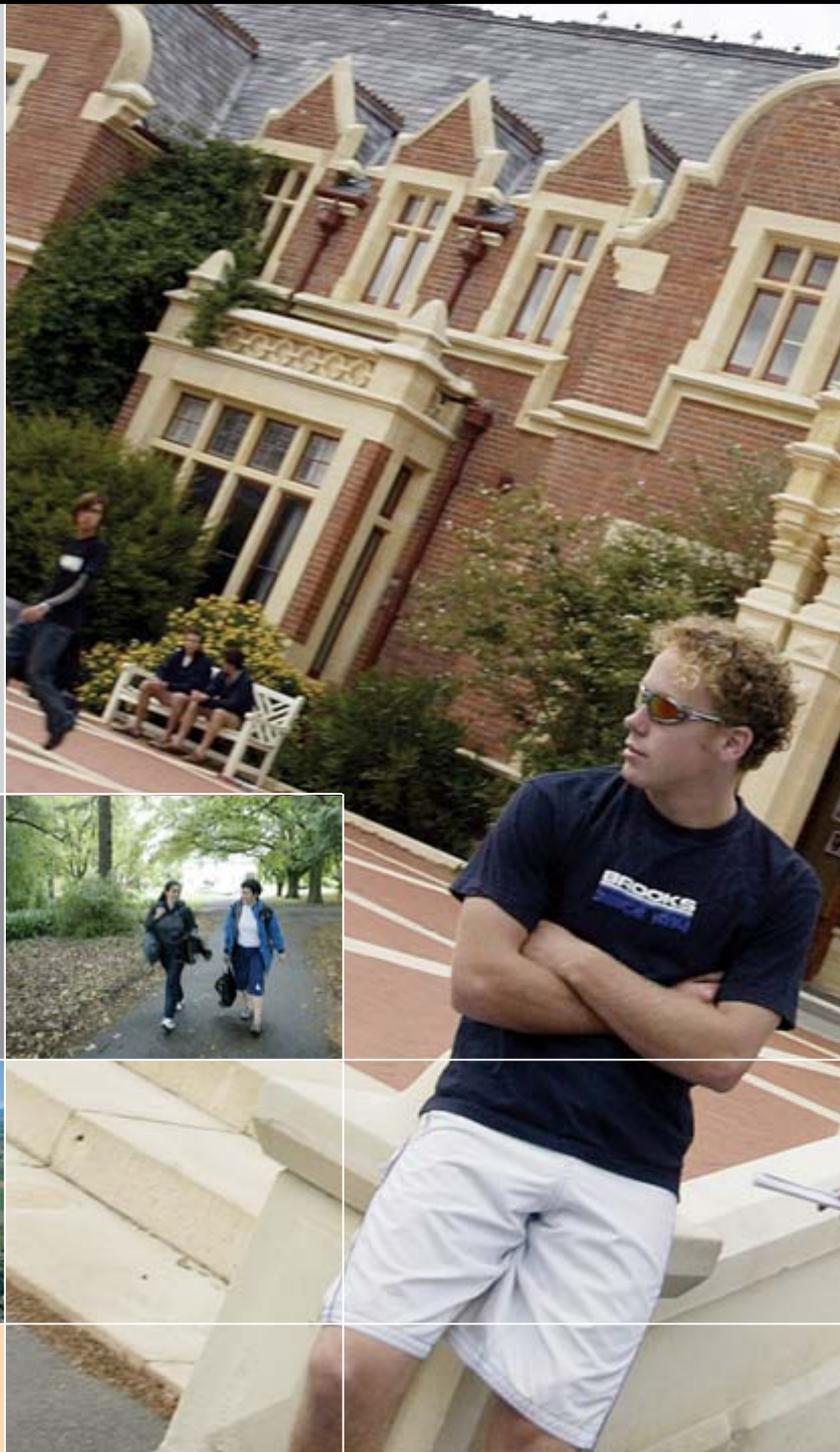
# Welcome to Lincoln University

Lincoln University is rare among tertiary institutions – small in scale and specialised in focus to deliver world-recognised research excellence in its chosen disciplines. The major focus is on ‘research that counts’.

Lincoln University welcomes students from over 60 countries around the world and the multicultural nature of the campus is an important strength. Another special characteristic is a focus on postgraduate learning. Of the 4000 students at Lincoln University about 18 percent of Lincoln University’s students are postgraduates, studying and undertaking research for PhDs, Masters and Honours degrees and other postgraduate qualifications.

Lincoln has a well-established tradition of interdisciplinary studies. The world doesn’t come in boxes, and nor does Lincoln’s approach. Lincoln pioneered an interdisciplinary approach to resource studies and today it applies that approach in diverse areas of environmental management. Environmental policy, economics and social and ecological considerations are all considered within a diverse teaching and research context.

*Lincoln’s 58 hectare campus is situated in the beautiful Canterbury Plains less than half an hour from Christchurch, the largest city in the South Island.*





The campus, like the institution itself, is a mix of the historic and the innovative. While agriculture is still a proud strand in Lincoln's disciplines, today the teaching and the research carried out by staff and postgraduates encompasses a much wider field – from molecular biology and gene transfer technology to environmental management and conservation ecology, social and legal issues, commerce and business, applied mathematics and computing, recreation and education.

In the biophysical sciences Lincoln's research-led focus has gained national and international attention. The South Island's only Centre of Research Excellence (the CoRE) is located on the Lincoln campus and concentrates on bio-protection activities. Cutting edge science is contributing to both animal and human health advances. Entomological research contributes to new biocontrol agents for agriculture while in the field of ecology research is contributing strongly to the management of New Zealand's threatened and endangered species.

Lincoln University's leadership in landscape architecture is well recognised. Transport studies and parks, recreation and tourism management are to the fore among Lincoln's disciplines, so too are social science, Maori studies and aspects of the humanities.

Lincoln University has grown a long way since it was established over 125 years ago. It's a unique mix – a university on a human scale, diverse but focused, with unrivalled opportunities for study across disciplinary borders, and strongly international in flavour.



*The campus houses modern teaching spaces, an excellent library and various campus facilities including accommodation for approximately 600 students.*

## Why Lincoln University?

From when you first set foot on campus you will notice Lincoln has a 'feel' that is quite different from other universities. Unlike many campuses that are grey and impersonal Lincoln's buildings are a mix of modern and tradition, surrounded by trees and open spaces. The campus is easy to get around so it won't take you long to feel at home and begin soaking up the atmosphere - chatting over coffee at the café, playing touch rugby on the field and rushing off to lectures!

The experiences you have at Lincoln will follow you wherever you go - and that will be far! Lincoln's focus on applied learning and solving real world problems means graduates 'hit the ground, running'. Many of Lincoln's qualifications are developed with industry, for industry, and therefore give students a real career path. Lincoln has been helping students get where they want to be for over 127 years, making Lincoln one of New Zealand's oldest tertiary educational institutions.

There are many good reasons why each year thousands of students choose to study at Lincoln - here are six...

### 1 Lincoln's postgraduate research is cutting edge and applied.

Lincoln University postgraduate research is applied at both domestic and international levels, and personalised via accessible and highly supportive academic staff.

### 2 Lincoln's teaching is research-led and shows commitment to the use of innovative technology.

Lincoln strives to be up-to-date with the latest developments around the world, often leading with its own innovations. Lincoln's research goal is to contribute to the economic transformation, social and environmental future of New Zealand. This is transferred to all students who learn and experience the most up-to-date developments from committed and forward-thinking teaching staff.



*Lincoln University's campus is situated within a cluster of science-based organisations in Lincoln. This results in collaborative projects which enable students to conduct research alongside potential employers.*



### ③ Lincoln offers a wide range of programmes in a variety of subject disciplines.

Most of these studies involve theory, case studies, field trips, teamwork, and practical application of theory learnt. The practical components support the theory, rather than replace it, and provide an effective learning tool. The programmes also take an interdisciplinary approach meaning that many of the areas of study overlap and work together. This allows you to gain a broader understanding of your field of specialisation. As a result, Lincoln has earned a well-deserved reputation among employers for producing graduates who are adaptable, creative, resourceful and knowledgeable.

### ④ At Lincoln you don't get lost in a crowd!

Because Lincoln is smaller than many universities you are more than just a number. The size provides you with many fantastic advantages. With students from all over New Zealand and from nearly 60 countries around the world, our campus is alive with people from all walks of life. You will also find our teaching staff to be approachable and friendly. At Lincoln, students come first and lecturers have an 'open door' policy so are always on hand to discuss projects and essays or to clarify a lecture topic.

### ⑤ Lincoln's campus is full of action.

There is a great range of social, sporting and cultural groups on site and there's always something exciting to do. The Lincoln University Students' Association will help you settle in with Orientation week and entertain you with the many social events held throughout the year. Lincoln also has excellent facilities to help you learn as well as socialise!

### ⑥ Location, location, location.

At Lincoln, we have the benefits of both city and rural lifestyles. The campus is set in the beautiful Canterbury plains and provides everything you need, including accommodation on or near the campus. We offer the perfect environment for undisturbed study and we are just 20 minutes away from all that the city of Christchurch has to offer you: pubs, clubs, music, movies, theatre, the arts, and of course Christchurch's famous sporting events and facilities. For science students, the University's location within the cluster of science-based organisations at Lincoln (e.g., Crown Research Institutes, Canesis) results in many collaborative research projects with staff from these institutes, enabling students to conduct their PhD studies alongside potential employers.

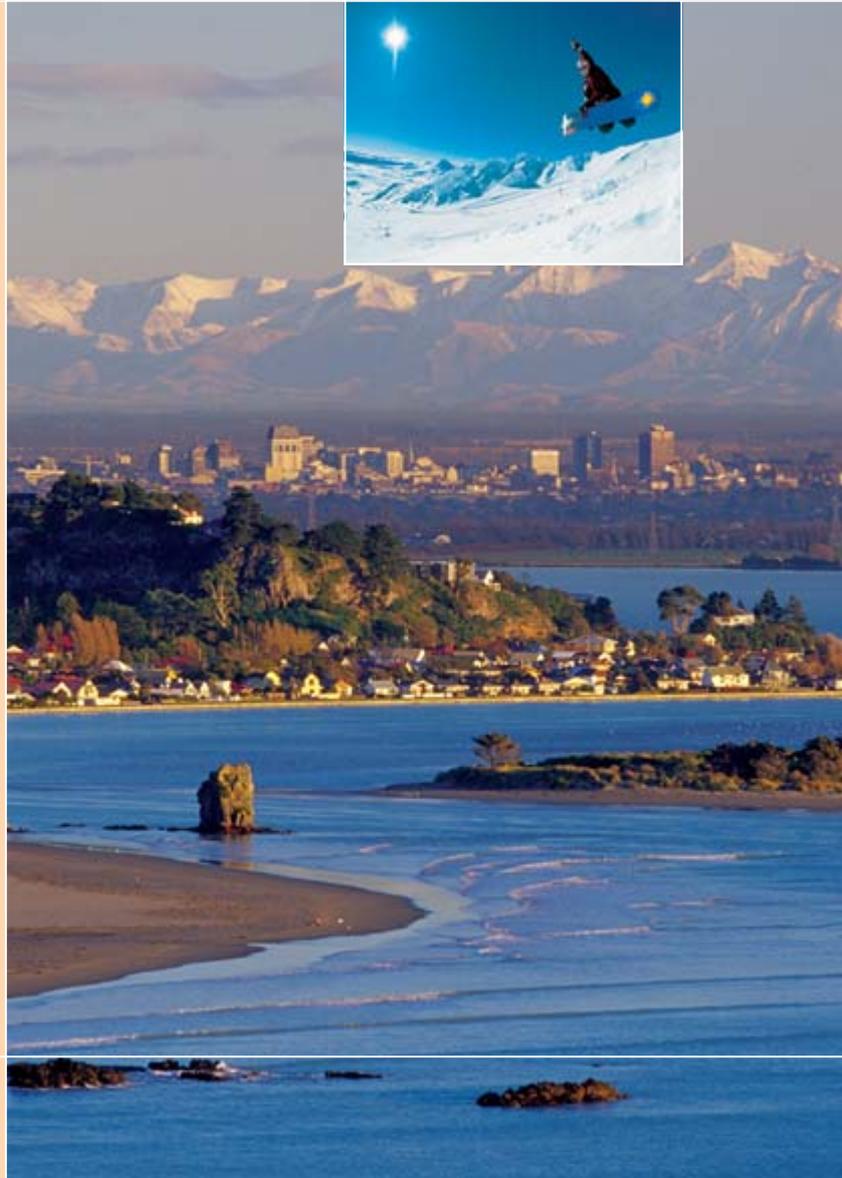
## Discover Christchurch and Canterbury

Studying at Lincoln means students have the best of both country and city living. Just 20 minutes from Lincoln University lies the city of Christchurch, which is the largest in the South Island.



### Christchurch has:

- A diverse range of cafés, restaurants, bars, pubs and nightclubs. Christchurch is famous for its music culture and there are plenty of venues offering all kinds of live acts ranging from live bands through to international DJ's.
- Excellent sporting facilities and clubs – from Jade Stadium, where you can cheer on the All Blacks and other national and local teams such as the Canterbury Crusaders, to the netball courts and recreational facilities at Hagley Park.
- Movie theatres galore – pick the latest in foreign films at one of the city's many art-house theatres or a box office hit at one of the city's multiplexes.
- Lots of boutique clothing designers for the fashion-conscious.
- All kinds of recreational activities – a day at the beach, mountain biking, tennis, golf, paragliding, surfing, fishing, 10 Pin bowling and plenty more.
- Internationally acclaimed parks, reserves and outdoor recreation areas. It's no wonder that this is known as the Garden City of New Zealand. One third of Christchurch has been set-aside for this purpose. The Port Hills beckon you for a walk, run or cycle ride, with spectacular views of the city, shoreline and plains.
- An International Airport just 25 minutes from Lincoln University, with direct flights to Auckland (1 hour 20 minutes), Australia (3 hours), Singapore (10 hours), Malaysia (11 hours), Los Angeles (12 hours) and other worldwide destinations.





**In the Canterbury area, you can try a whole range of activities:**

- Surfing at Taylor’s Mistake.
- Bungy jumping at Hanmer Springs, and relax with a hot thermal spa to follow.
- Tramping at Arthur’s Pass.
- Sample the eight ski fields, all less than two hours drive from the city – you’re spoilt for choice.
- Fish for trout or salmon in one of the region’s many rivers and lakes.
- Take a day trip to Akaroa, New Zealand’s own little slice of France, and swim with the dolphins.
- Go to an orchestral or rock concert, or attend the opera or ballet in Christchurch.
- Eat out at any one of number of restaurants and wine bars.
- Taste wine from one of Canterbury’s many vineyards.
- Attend an art exhibition at one of Christchurch’s many art galleries.

The options to enjoy Christchurch and the Canterbury region are limitless!

**Climate**

Canterbury’s climate is temperate, without extreme highs and lows. Any huge variations in temperature can be accounted for by the combination of its mountainous geography and prevailing westerly winds.

The rainfall is low: 660mm per year

There are four seasons.

**Summer (December to February)**

Warm and dry, 18 - 25°C temperatures, with 62 - 78% humidity. January is usually the warmest month.

**Autumn (March to May)**

Cool nights and mild days, 12-16°C temperatures. Regular rainfall.

**Winter (June to August)**

Sometimes frosty mornings but usually crisp sunny days follow. Maximum daytime temperature is from 10-15°C.

**Spring (September to November)**

Spectacular in the Garden City, Christchurch, and in the Lincoln area with blossom and spring flowers and mild temperatures (14-20°C temperatures).

# Postgraduate students and graduates have their say

## Marco Gonzalez

*From Paraguay*

**Currently studying:** Master in Applied Science

### **What do you enjoy about your studies?**

"I enjoy utilising real case studies and field trips in order to analyse different themes and their application in the real world. Also I really appreciate the support I receive from lecturers who are always easy to approach and are willing to give advice."

### **What are your thoughts on the campus facilities?**

"The halls are the best place to stay for international students as you have the chance to make lots of friends and attend all the campus activities. The Recreation Centre also offers a great variety of sport facilities and activities"



## Lucy Baragwanath

Bachelor of Resource Studies 2000; PhD 2004

**Currently:** Postdoctoral Research Fellow in the Institute for Advanced Studies in Management and Social Sciences at Lancaster University in the UK

### **What does your position at Lancaster University involve?**

"I am working on a research project examining the emergence of the idea of the Knowledge Economy in the UK, how this has been translated into policy, and what the significance is. My study compares my UK findings with the similar work I carried out in New Zealand during the course of my PhD."

### **What did you enjoy most about Lincoln?**

"The high standard of the courses and the quality of the teaching was excellent. There were advantages of Lincoln being a small university for interacting with senior scholars. I also really enjoyed the surroundings – I believe Lincoln has the most beautiful campus of any university in New Zealand."





### Matthew Buchan

**Studied:** PhD (Environmental Soil Science)

**Why did you choose Lincoln?**

"I was feeling disillusioned in my previous studies in electrical engineering at another university. Lincoln offered a fresh applied approach. I get to do cutting edge research involving technology and environmental science"

**What are your thoughts on the teaching staff?**

"The teaching staff are fantastic! There is a really good staff to student ratio. They are also very knowledgeable and are willing to go further than just doing their job to really help guide you."



### Sirinart Theenanondh

*From Thailand*

**Currently studying:** Master of Commerce and Management

**What do you enjoy most about Lincoln?**

"I like the atmosphere of the small class size – it allows for good interaction between students as well as accessibility of lecturers and staff. I have received individual attention from staff and I know I can turn to them when the need arises"

**What are your thoughts on the style of teaching at Lincoln?**

"The combined methods of lectures, class discussion, group and individual assignments and field trips encourage personal development. It inspires students to work hard and push themselves to the fullest."



### James Helmore

Postgraduate Diploma in Parks, Recreation and Tourism Management

**Currently:** Marketing Development Manager with Skyline Gondola, Restaurant & Luge

**Why did you choose to study the Postgraduate Diploma in Parks, Recreation and Tourism?**

"It combined everything I was passionate about (people, the outdoors, the pride I have in New Zealand, etc) in an industry that offered fun and excitement, plus it opened up a career path. What more could I want!"

**What did you enjoy most about your study?**

"The main thing was that the courses, while well grounded in theory, offered a strong practical element. Take our group assignment for RECN 222 which was to create, budget and market an adventure trip, which we did, and subsequently took 16 people on a day trip to Hanmer Springs to go bungee jumping, jetboating, mountain biking then for a soak in the hot pools. You don't get that sort of experience solely in the classroom."

**How did Lincoln prepare you for what you are doing now?**

"My postgraduate study at Lincoln was the single thing that pulled together my previous study in Commerce with everything I was passionate about so was vital focusing my energy and getting me where I am today. "

# Lincoln's Approach to Postgraduate Study

Lincoln University aims to provide an environment which challenges students to reach new levels of thinking, study and research. To help achieve this aim individual programmes of study and research are negotiated with each research student.

You will be challenged to new levels of thinking, study and research. Whatever your discipline, we want you to have the opportunity to develop skills that will help you work more effectively in your career or future studies.

Lincoln University aims to educate students to:

- think critically;
- communicate effectively;
- enhance their knowledge;
- synthesise and use knowledge intelligently, responsibly and creatively.



*Field work is a crucial part of postgraduate study at Lincoln University.*



**Gabriela**  
*From Chile*

"What I enjoy about Lincoln University is the environment, friendly people, beautiful campus, nice lecture theatres, and good facilities. The lecturers have a very high level of knowledge, and are friendly and open-minded"





## Transferable skills

To succeed in their careers or further research, postgraduate students must acquire many skills alongside the knowledge of their chosen discipline.

Lincoln University has developed learning modules in areas such as research budgeting, team work, communications and inter-personal skills. A number of workshops are also organised to cover areas such as preparation for oral exams and how to make the partnership with your supervisor successful.

All postgraduates are invited to attend an annual Postgraduate Conference which is run jointly by students and staff. It is held on campus around the middle of the year and aims to improve learning and research habits and challenge postgraduates to think "outside the square". Postgraduate students have many opportunities to pool findings and share their insights.

## Part-time study

The University encourages both full time and part time (for domestic students) study arrangements with all qualifications now having both options. Some programmes, e.g., the Masters of Professional Studies and the Masters of Property studies are extramural and designed to be part time. In other areas some courses are delivered at times designed to meet the needs of those in full-time employment, e.g., Advanced Resource Management Law. Transport to and from the University, and other supporting arrangements, help cater for these needs and opportunities.

## Mature students

An ever-growing proportion of the postgraduate student population can be described as 'mature'. Typically these are students returning to University either full or part time after a period away from University and in alternative or continuing employment. These students have particular study and support needs and the University has development programmes that attempt to meet these requirements, e.g., in terms of updating computing skills, library resources and thesis research workshops.

## Guidance

It is vital that the relationship postgraduate research students have with their supervisor is successful. The master-apprentice model which is the traditional approach to postgraduate research has been replaced by supervisory research teams. Students benefit from not just contact with a personal supervisor but with co-supervisors, associates and, where appropriate, off-campus scientists and industry practitioners who help guide research projects.

The supervisory team works with the students in identifying goals and monitoring progress throughout the life of the project. To ensure that everyone in the learning process knows what is expected of them, a Mutual Expectations Agreement is

negotiated between postgraduates and the supervision team - it outlines precisely the responsibilities and expectations of students and supervisors.

There is a growing expectation have for students to publish their research findings. Guidelines have been developed surrounding this expectation but generally there is an understanding that students and staff will share in most publications with the student normally being the primary author. See page 49 for more information regarding research funding.

### Key research policies

Ethical issues are an important concern within the modern research environment. The University complies with strict codes of practice and relevant research is considered and approved by the Animal Ethics and Human Ethics committees.

With the commercialising of new ideas and knowledge, issues surrounding Intellectual Property have become extremely important. Lincoln University has an Intellectual Property Policy that reflects the needs and rights of both students and staff. Student-related matters in the Policy have been negotiated by consensus between the University and the Students Association. The IP policy is available at: <http://www.lincoln.ac.nz/pgrs/ip.htm>.

The Lincoln University Policy on Environmental Sustainability has the aim of wise and sustainable use and protection of the environment across all parts of the campus teaching, research, operations and commercial activities.

### Beyond the University walls

Lincoln University acknowledges that for skills and qualifications to suit today's needs, a thesis is not enough. Our approach emphasises strong links with industry and commerce and 'real world' applications.

To help our postgraduates with "real world" research and prepare them for careers an increasing number go off-campus each semester to work with research agencies close to Lincoln or at institutions as distant as Norway or California.

These sorts of visits are closely planned and assessed by a university supervisor and the outside managers. After the placement, students are asked to deliver a seminar to their own department, so there's maximum cross-fertilisation of the benefits they receive.

Students benefit enormously from the experience of working in different research environments and they forge links that can be valuable to them long into their careers.

Lincoln University has close professional and scientific ties with bodies throughout New Zealand and around the world. The campus itself is at the centre of a cluster of government research organisations such as Crop & Food Research, Landcare Research, AgResearch, HortResearch, the Foundation for Arable Research and Canesis (Wool Research Organisation of New Zealand).

We actively promote collaborative research projects with these and other organisations. And we involve a host of off-campus organisations in consulting on the design of courses, and in teaching and research.

The University has its own commercial arms. Lincoln Ventures and Lincoln International, self-funding subsidiaries of the University, apply Lincoln's expertise to developing cutting-edge technologies and exporting them around the world, working on contracts with organisations such as the United Nations Food and Agricultural Organisation and the Asian Development Bank.



*A postgraduate student researching wild pig movements near Arthurs Pass.*



**Melissa Renganathan**  
Master of Resource Studies

"I worked on a social science thesis looking at perceptions of wildlife and wildlife management. I used the kereru as a case study and looking at traditional ecological knowledge (TEK) as an option for management. I showed that by understanding how we perceive species such as kereru, we may be able to better improve management plans."

## Professional Institutes

In any vocational degree, professional accreditation is vital. The following institutes have membership which can be gained by completing Lincoln University degrees.

### New Zealand Institute of Chartered Accountants (NZICA)

Membership of the College of Chartered Accountants (CA) of the New Zealand Institute of Chartered Accountants is based around the following Admissions Policy Framework.

The three elements of the admissions policy framework are:

- Academic requirements
- Practical experience
- Professional competency examinations.

The first of these, academic requirements, can be met through study at Lincoln University. The four-year study involves:

- BCM or BCom (3 years)\*
- Graduate Diploma, Postgraduate Diploma, or BCom (Hons) (1 year)

\* If your Bachelor degree is from an overseas institution you need to apply to the NZICA for recognition of your qualification.

The NZICA website is <http://www.nzica.co.nz>

### New Zealand Institute of Landscape Architects (NZILA)

The BLA and MLA are recognised by the New Zealand Institute of Landscape Architects as meeting the requirements for graduate membership of the profession, with reciprocal accreditation in Australia and the UK, and recognition worldwide through the International Federation of Landscape Architects. The international standing of Lincoln degrees means that our graduates frequently travel to gain work experience in a wide range of other countries. Currently we have graduates working in Australia, South East Asia, China, Europe, North America, and the Middle East. Increasingly, international students are also choosing to study at Lincoln, before returning to their home countries to practise.

The Institute's website is: <http://www.nzila.co.nz>.

### Environment Institute of Australia and New Zealand (EIANZ)

The EIANZ is a unique and representative professional organisation specifically formed to meet the needs of environmental practitioners. Started in 1987, the EIANZ is genuinely multi-disciplinary in focus and membership.

The New Zealand Chapter of EIANZ was established in 2003 and fills in a gap for environmental practitioners for the first time in New Zealand. Members of EIANZ in New Zealand come from a wide range of disciplines. There is student membership.

The EIANZ has launched Australasia's first certification scheme for general environmental practice. The certified Environmental Practitioner (CEnvP) scheme ensures that there are the highest possible standards of practice.

The EIANZ website is [www.eianz.org](http://www.eianz.org)

The CEnvP website is [www.cenvp.org](http://www.cenvp.org)

### New Zealand Planning Institute (NZPI)

Lincoln University has a number of pathways that are accredited by the New Zealand Planning Institute in line with its Education Policy:

- Bachelor of Environmental Management (Policy and Planning) (only if at least one additional year of postgraduate study - to make it a four year degree - has been completed. This could be done as a PGDip Resource Studies, BEM Honours, M.Appl.Sc (Environmental Management) or MRS including prescribed papers. The M.Appl.Sc (EM) is a twelve month course while the MRS is a two year degree).\*
- Master of Environmental Policy (MEP) including prescribed papers.\*
- Bachelor of Maori Planning and Development (BMPD) (Resource Management) (only if at least one additional year of postgraduate study - to make it a four year degree - has been completed. This could be done as a PGDip (Indigenous Planning), PGDip (Resource Studies) or BMPD Honours.\*
- Master of Indigenous Planning and Development (MIPD) including prescribed papers.\*
- A proposal is being developed to provide membership opportunities to Bachelor of Landscape Architecture students who take core planning courses and complete the proposed new one year MAppl.Sc.(Landscape Planning) degree.

\*Important note - Lincoln graduates must have specific papers included in their studies to be eligible for membership. Contact the Institute or visit the Lincoln web site if you have any questions.

Possible planning careers include:

- Local government planner: regional, district and city councils and unitary authorities
- Environmental and planning consultancy firms
- Policy analyst/adviser
- Environmental researcher
- Maori/Iwi planning officer or policy analyst
- Transportation planner
- Resource manager.

Check the NZ Planning Institute web site at <http://www.nzplanning.co.nz> for more information on careers in planning.

# Postgraduate Qualification Options

## Planning your study

### Semesters

Lincoln University's academic year has two main semesters:

**First semester** - mid-February until mid-June

**Second semester** - early July until late October

- In addition, some undergraduate courses are offered in a summer semester, during the traditional summer break from November until February.
- Most postgraduate degrees can be started either in February or July. But check, because there are a few exceptions. Most courses are taught over one semester only.
- PhD students can generally begin studies at any time of the year.

*The Lincoln University library is well resourced with particular strengths in the Universities main teaching and research areas.*



## Summary of Postgraduate study options

Qualification	Length – Full-time	Number of courses	Course level	Minimum admission
Graduate Certificate	One semester	Four	300-level	Bachelors degree
Graduate Diploma	Two semesters	Eight	300-level	Bachelors degree
Postgraduate Certificate	One semester	Three	600-level	Bachelors degree with some background in the subject area
Postgraduate Diploma	Two semesters	Six	600-level	Bachelors degree with some background in the subject area
Honours	Two semesters	Six	600-level	By invitation during Bachelor degree study or by application after completion of degree.
Masters Degree – Exam only, i.e., Masters of Professional or Property Studies	Part-time only (Extramural only)	Six plus a dissertation	600-level	Normally a Bachelors degree with some background in the subject area
Masters Degree – Exam only*	One calendar year	Six plus a dissertation	600-level	Bachelors degree normally with some background in the subject area
Masters Degree – Exam and thesis*	Two years	Six plus a thesis	600-level	Bachelors degree normally with some background in the subject area
Masters Degree – thesis only*	One year			Bachelors degree with first or high second class honours
PhD	Three years			Masters or Bachelors degree with first class honours

\* These three options are not all available for all of the degrees



- All entrants whose qualifying degree was in a language other than English are required to demonstrate competency in English language see <http://www.lincoln.ac.nz/ic/langreq.htm> for more information.
- Enrolments may follow either undergraduate degrees at Lincoln or a wide range of first degrees taken at other universities.
- Entry to all graduate and postgraduate programmes is subject to the approval of the Academic Board at Lincoln University.

### Flexibility and bridging options

It is possible for a student to complete a graduate certificate and surrender the certificate and with an additional one semester equivalent course of study complete a graduate diploma. The same applies for the postgraduate certificate and diploma. Students can also surrender the postgraduate certificate or diploma and bridge into the Masters programme, subject to meeting specified grade requirements.

If you are interested in doing the Postgraduate diploma but do not have a background in the subject area it may be possible to bridge in by first completing the graduate diploma programme.

We pride ourselves in the flexibility we offer students when undertaking their postgraduate study. We encourage you to talk to us about specific career paths and options for achieving these.

# Doctor of Philosophy

Lincoln University has a buoyant PhD programme which reflects the cutting edge research activities around the campus. PhD students at Lincoln are very important members of the research community and are key to research groups and Centres.

## PhD structure and assessment

A typical Lincoln PhD programme comprises three years of research, and course work is not usually a component. PhD students can, however, choose some course work if they wish, especially when they are unfamiliar with some aspect of their proposed research topic. All PhD students have at least one main supervisor and one associate supervisor although supervisory teams are common and co-supervision (two supervisors of equal status) is frequent. Supervision assistance via both formal and informal arrangements from off-campus, e.g., Crown Research Institutes, is encouraged.

Intending PhD students often initiate their contact with Lincoln via a Research Centre, or they may be familiar with the research area of one or more staff members and contact them directly. Also, some PhD topics have funding which has been obtained by a staff member, either as a stand-alone scholarship or as part of a research grant. These latter topics are usually advertised nationally and internationally. PhD students begin their studies by developing their research plan, guided by their supervisors and others, and their key task in the early months is to produce a Research Proposal.

The Research Proposal is read and commented on by all members of the supervisory team and when it is complete the student presents a seminar on the proposed work to a small group including the supervision team. Once the proposal has been approved, the student can apply for research funding. A preliminary, small allocation may be made at an earlier stage, to allow photocopying, printing and access to the internet.

Lincoln University places great emphasis on well planned and well executed PhD programmes. Research manuscripts from the thesis have often been submitted to refereed journals, or published, by the time the thesis is submitted for examination.

Most PhD students at Lincoln University “defend” their PhD via an oral examination after the thesis has been examined by four people. These are the main supervisor and one other member of the supervisory team, along with two external examiners who are appointed by the Academic Administration Committee. One of these examiners is a specialist from within New Zealand and the other is from overseas. The New Zealand examiner, but not normally the overseas one, attends the oral and leads the discussion, asking questions on behalf of the overseas examiner as well as his/her own. The oral is chaired by a neutral convenor from an unrelated discipline within the University. The convenor is also appointed by the Academic Administration Committee, and his/her job is to ensure that the examination is fair and reasonable.



## PhD student support

As well as support from the supervisory team, the student can seek help and advice from other people. The Research Office, Student Services, and as appropriate the International Centre, also offer support when needed. The Lincoln University Students Association, through its Education and Postgraduate Officers, also provides help and support for Postgraduate students. Teaching and Learning Services offers specialised training in many research aspects related to thesis preparation and presentation.

## PhD admission

The usual entrance qualification is a research-based Masters or Honours degree with an appropriate level of qualification. To find out if you qualify for entry contact: 0800 10 60 10 or [postgraduate@lincoln.ac.nz](mailto:postgraduate@lincoln.ac.nz)

## Examples of PhD research topics at Lincoln University

Research theme	Specific PhD research topic
Agricultural and Primary Production	A search for genetic markers affecting wool characteristics using keratin and keratin-related genes as candidate genes Biological control of onion white rot using <i>Trichoderma harzianum</i>
Biological and Physical Sciences	Biosensors for measurement of environmental pollutants The invertebrate community of epiphytes in the canopy of native forests
Food and Health	The involvement of Calpain II in the formation of the ovine heritable cataract Image analysis of meat quality characteristics
Applied Computing	Towards a flexible and temporal integral voltage/reactive power control system A study of the nature of contamination of aquifers in the west coastal area of Taiwan and the development of a computational model specific to the aquifers
Business and Economics	Voluntary disclosure of prospective financial information in Initial Public Offering prospectuses International transfer pricing audits: a comparative empirical study of environmental factors in New Zealand, Australia and China
Environmental Design and Management	Integrated Environmental Management: An unfragmented framework for theory and practice Environmental classification for River Resource Management: A tool for implementing Sustainable Management
Maori Development	A Maori determined approach to sustainable development in Maori communities
Society and Culture	The implications of globalisation for New Zealand

**Masters degree enquiries:**

0800 10 60 10

postgraduate@lincoln.ac.nz



**Dr Derrick Moot**  
Senior Lecturer in Plant Science  
*Winner of a 2004 National Tertiary Teaching Award for Sustained Excellence.*

Tracey Reddecliffe, a Master of Science graduate with First Class Honours in Crop Physiology said that Dr Moot epitomised what a postgraduate supervisor should be - "a motivator, a sounding board, a bundle of knowledge and enthusiasm, and an extremely approachable person". In her area of study Dr Moot made her feel part of the team, she said. "He has the ability to build up a student's self-esteem, to fill them with motivation and encouragement whilst always challenging their potential by raising the goalposts."

# Masters Degrees

Multidisciplinary study is a hallmark of Lincoln University's suite of Masters degrees. Many degrees encourage students to choose subjects from across Lincoln's disciplines, outside the core areas of study. We aim to customise the degree to your areas of interest.

## Masters programme options

Most masters degrees are two-year programmes involving advanced-level courses and research leading to a thesis. Candidates usually complete courses in the first year of study and devote their second year to research for their thesis.

Masters courses are geared to meet constantly changing needs. The portfolio of degrees is continually reviewed and new degrees and courses developed to meet the needs of students and industry.

**By examination and thesis** - Students will normally take a minimum of two academic years to complete a Masters degree by examination and thesis. The taught component comprises six courses (each normally of 1 unit) selected from the schedule of masters degree courses.

**By thesis only** - It is possible for students who hold an honours degree to complete a Masters degree by thesis only. Students will then normally take a minimum of one academic year to complete the requirements of the degree.

**By examination only** - There are some Masters degrees which can be completed with just a taught component, over one calendar year. This usually consists of six courses and a research dissertation.

Note: A dissertation is typically one-third the value of a thesis at Lincoln University. This point needs to be considered carefully when planning, especially if you are considering undertaking a PhD at a later stage in your academic career.

## Masters of Professional Studies and Masters of Property Studies

These two programmes are offered on a part-time extra-mural basis within New Zealand. They comprise 6x1-unit courses and a 2-unit dissertation.

## International Masters degree

The Masters of Natural Resource Management and Ecological Engineering (MNRMEE) is jointly offered with a partner institution in Europe. The degree requires periods of study at both institutions and is taught in English.

## Masters admission

In most cases the entry requirement is a bachelor's degree or a bachelor's with honours in an equivalent area. Depending on the academic background, however, students may be required to complete a bridging programme, take additional courses or complete a graduate certificate for admission to a Master's programme.

House Rules for the Masters degrees can be found at: <http://www.lincoln.ac.nz/pgrs/houserules/default.htm>

## The research process

The Research Proposal is read and commented on by all members of the supervisory team and when it is complete the student presents a seminar on the proposed work to a small group including the supervision team. Once the proposal has been approved, the student can apply for research funding. A preliminary, small allocation may be made at an earlier stage, to allow photocopying, additional access to the web, etc.

Lincoln University places great emphasis on well planned and well executed Masters theses. These are being submitted earlier and research manuscripts from the thesis have often been submitted to refereed journals, or published, by the time the thesis is submitted for examination.



*Pictured: Cor Vink, a PhD student, researches spider evolution within the Ecology and Entomology group.*

## Examples of Masters degree research topics at Lincoln University

Masters degree	Student research topic examples
Master of Agricultural Science	<ul style="list-style-type: none"> <li>Biosensors of marine toxins</li> <li>Dairying Management Systems</li> <li>A study of seed vigour in kale</li> </ul>
Master of Applied Computing	<ul style="list-style-type: none"> <li>Techniques for optimization of a dairy farm simulation model.</li> <li>Development of a computational framework for the stochastic velocity field correlated both in space and time</li> </ul>
Master of Applied Science	<ul style="list-style-type: none"> <li>Identification and evaluation of factors affecting the sustainable management of forests in Tierra del Fuego, Argentina.</li> <li>New Zealand's universities and the Royal Commission on Genetic Modification</li> <li>Timing and severity of leaf removal effects on Pinot Noir grape and wine composition</li> <li>The impact of mammalian predation on Kereru (<i>Hemiphaga novaseelandiae</i>) populations on Banks Peninsula</li> <li>An international adventure: qualitative exploration of an outdoor and adventure programme in an international school in India</li> <li>Managerialism as a professionalizing catalyst for the frontline practitioner community of New Zealand's Department of Conservation</li> <li>The physical activity levels of older New Zealanders: how active are they?</li> <li>A changing streetscape and residents' responses: the case of Christchurch</li> </ul>
Master of Applied Science (1 year), specialisations in: <ul style="list-style-type: none"> <li>Environmental Management</li> <li>Farm Management Consultancy</li> <li>Immunology</li> <li>International Rural Development</li> <li>Parks, Recreation and Tourism Management</li> <li>Transport Studies</li> </ul>	<ul style="list-style-type: none"> <li>An investigation of the greenhouse gas balance of the Marlborough Region, New Zealand</li> <li>Farm level marketing: Case studies in the South Island of NZ</li> <li>Applied Veterinary Immunology: strategies for the future</li> <li>Approaches to rural development in Pakistan over the period 1947 to date – an extended review</li> <li>Exploring the meaning of outdoor recreation in participants' everyday lives.</li> <li>Drop out in elite sport: a New Zealand perspective</li> <li>The Cold Chain</li> </ul>
Master of Business Administration (MBA)	<ul style="list-style-type: none"> <li>New Masters degree on offer in 2006 mid year (begins July/August).</li> </ul>
Master of Commerce (Agricultural)	<ul style="list-style-type: none"> <li>The role of customer requirements in regulating supply chain management relations in the fresh produce chain.</li> </ul>
Master of Commerce and Management	<ul style="list-style-type: none"> <li>Factors leading to customer retention in New Zealand's banking industry: a comparative study of bankers' and customers' perspectives.</li> <li>An examination of the quality of voluntary environmental reporting in New Zealand and Australia: a legitimacy theory perspective.</li> <li>The evaluation of the welfare effects of subsidies on pharmaceutical products</li> </ul>
Master of Environmental Policy	<ul style="list-style-type: none"> <li>International Aviation From A Sustainable Tourism Perspective</li> <li>An Evaluation Of District Council Policy And Procedure Related To The Seal Extension Of Roads</li> </ul>
Master of Horticultural Science	<ul style="list-style-type: none"> <li>The effect of different orchard management practices on the phylloplane microorganism populations in apple orchards</li> <li>Effects of <i>Stemphylium</i> spp on pea (<i>Pisum sativum</i> L.) seed quality</li> </ul>
Master of Indigenous Planning and Development	<ul style="list-style-type: none"> <li>Broadening the Perception of the Maori Tourism Experience</li> <li>Theoretical &amp; Practical Implications for Indigenous Resource Management utilising GIS</li> </ul>
Master of Landscape Architecture	<ul style="list-style-type: none"> <li>The impact of private vehicle ownership trends on urban form and accessibility in Christchurch</li> <li>Baches in the landscape and their contested recognition as landscape: case studies of heritage landscapes at Taylor's Mistake and Rongitoto Island</li> </ul>

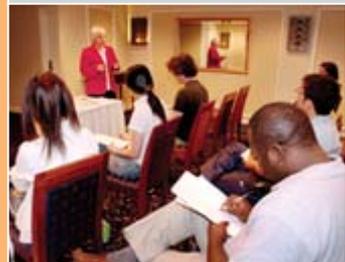
Masters degree	Student research topic examples
Master of Natural Resources Management and Ecological Engineering	<ul style="list-style-type: none"> <li>Multi criteria decision making processes in visitor management for protected areas</li> </ul>
Master of Parks Recreation and Tourism Management	<ul style="list-style-type: none"> <li>The role of local government in Thailand: impacts on and responses to sustainable tourism development</li> <li>Indigenous peoples and natural protected areas: tangata whenua and Mount Aspiring National Park</li> </ul>
Master of Professional Studies, specialising in one of: <ul style="list-style-type: none"> <li>Agribusiness Management</li> <li>Environmental Management</li> <li>Forest Industry Management</li> <li>Property Studies</li> <li>Transport Management</li> </ul>	Examples from some specialisations include: <ul style="list-style-type: none"> <li>Evaluation of Transport Options between Christchurch &amp; Outlying Centres</li> <li>Researching the Impact of Aircraft Noise on the Milford Sound Environment</li> <li>Bulk Chemical Logistics in New Zealand</li> <li>Off-Set Mitigation for Environmental Impact: a suggested Model for Use in New Zealand</li> <li>Bar, Café &amp; Restaurant Operators' Perceptions of &amp; Attitudes to Vocational Education &amp; Training in New Zealand</li> </ul>
Master of Property Studies	<ul style="list-style-type: none"> <li>A model to explicitly allow for risk in DCF analysis of investment property</li> <li>The future scope of telehousing in New Zealand</li> <li>The Feasibility of Establishing a Tourist Resort in Tonga</li> </ul>
Master of Resource Studies	<ul style="list-style-type: none"> <li>The social construction of Himalayan tahr in New Zealand: pest, resource or ...?</li> <li>Interactions between the ornamental horticulture sector and the Hazardous Substances and New Organisms Act: assessing the risks of non-compliance</li> </ul>
Master of Science	<ul style="list-style-type: none"> <li>Xenoestrogens in NZ shellfish</li> <li>Application of dairy effluent to soils</li> <li>Ecology and conservation of the harlequin gecko (<i>Hoplodactylus rakiurae</i>) on Stewart Island</li> </ul>
Master of Social Science	<ul style="list-style-type: none"> <li>The after school organisation of children's time and space</li> <li>Experiences and characteristics of mature students enrolled in an undergraduate degree</li> </ul>
Master of Tourism Management	<ul style="list-style-type: none"> <li>Towards a Framework for the Use of EVA (Economic Value Added) for New Zealand Tourism Firms: A case study of Akaroa</li> </ul>

**Masters degree enquiries:** 0800 10 60 10 [postgraduate@lincoln.ac.nz](mailto:postgraduate@lincoln.ac.nz)



**BMGT 611 - Human Resource Management**

The course, Human Resource Management, includes several site visits to show students the different challenges that Human Resource Managers face. The students pictured are at the Millennium Hotel where they spoke with Human Resource Manager, Charlie Thom. Charlie spoke about issues regarding having a large number of part-time staff, seasonal fluctuations in staffing requirements, and the extensive training that is required in service industries.



# Bachelors degree with Honours

Many students want more than an undergraduate degree without committing themselves to many years of more study. For these students the one-year honours programme is an attractive option. For those graduating with First Class honours there is direct entry to the PhD programme, subject to finding an appropriate research topic and supervision team.

Most Lincoln University degrees allow students the option of applying for admission to one year of honours study after completing their bachelors degree. For example, a student having completed a Bachelor of Science at Lincoln or another university can then apply for acceptance into the Science honours programme.

Generally students can be admitted with average marks of 65 per cent or more in your previous two years of undergraduate study. Students with lower average marks may be accepted under special circumstances.



## The one-year honours degrees at Lincoln University are:

- Bachelor of Applied Computing (Honours)
- Bachelor of Commerce (Honours)
- Bachelor of Environmental Management (Honours)
- Bachelor of Māori Planning and Development (Honours)
- Bachelor of Recreation Management (Honours)
- Bachelor of Science (Honours)
- Bachelor of Social Science (Honours)
- Bachelor of Tourism Management (Honours)
- Bachelor of Viticulture and Oenology (Honours)

There are two other Bachelors degrees at Lincoln University awarded with Honours. Within the Bachelor of Agricultural Science degree outstanding students are invited to enrol for honours and complete an extra year of study. The Bachelor of Landscape Architecture degree is four years in duration and is awarded with or without honours.



*David Power, pictured here while completing his masters, researching the performance of annual clovers at Lincoln University's Mount Grand Station near Wanaka.*

# Postgraduate Certificate and Diplomas

Postgraduate certificates and diplomas are a good way to build on the value of a bachelors degree. Students usually enter the certificate or diploma with a related degree and they choose a specialisation which they would like to explore further. It also provides a useful vehicle for the acquisition of skills that graduates from earlier years may not have had the opportunity to include in their undergraduate degree programme.

The Postgraduate certificates and diplomas are very flexible and you can customise a programme to fit your needs and interests.

## Postgraduate Certificate and Diploma Admission

For entry into the postgraduate certificate or diploma it would be expected that students have a degree in the same discipline or related area.

## Postgraduate Certificates at Lincoln University are:

- Postgraduate Certificate in Applied Computing
- Postgraduate Certificate in Applied Science
- Postgraduate Certificate in Commerce
- Postgraduate Certificate in Indigenous Planning
- Postgraduate Certificate in Landscape Studies
- Postgraduate Certificate in Parks, Recreation and Tourism Management
- Postgraduate Certificate in Resource Studies
- Postgraduate Certificate in Social Science
- Postgraduate Certificate in Tourism Management

## Postgraduate Diplomas at Lincoln University are:

- Postgraduate Diploma in Agricultural Science
- Postgraduate Diploma in Applied Computing
- Postgraduate Diploma in Applied Science
- Postgraduate Diploma in Commerce
- Postgraduate Diploma in Horticultural Science
- Postgraduate Diploma in Indigenous Planning
- Postgraduate Diploma in Landscape Studies
- Postgraduate Diploma in Parks, Recreation and Tourism Management
- Postgraduate Diploma in Resource Studies
- Postgraduate Diploma in Social Science
- Postgraduate Diploma in Tourism Management



# Graduate Certificates and Diplomas

The graduate certificates and diplomas are open to holders of a degree but students study predominantly at the level of a final year bachelors degree. The graduate diploma and certificate are ideal for those who want to broaden existing knowledge, gain industry experience, add flexibility to their employment options, or those who want to retrain in areas in demand. For the graduate certificate or diploma, normally the student is transferring to another major disciplinary area, e.g. science, to commerce.

In some cases the graduate diplomas give some excellent bridging options. For example it allows graduates from other disciplines entry into the Master of Landscape architecture (professional) with completion in two years.

The graduate certificate allows students who want a minimum time away from the workforce the opportunity to gain a useful first qualification in an area of their choice.



## Graduate Certificate and Diploma entry

The graduate qualifications are open to holders of a degree or equivalent.

## Graduate Certificates at Lincoln University are:

- Graduate Certificate in Applied Computing
- Graduate Certificate in Applied Science
- Graduate Certificate in Commerce
- Graduate Certificate in Commerce (in Transport and Logistics)
- Graduate Certificate in Landscape Studies
- Graduate Certificate in Māori Planning
- Graduate Certificate in Recreation Management
- Graduate Certificate in Resource Studies
- Graduate Certificate in Social Science
- Graduate Certificate in Sports Management
- Graduate Certificate in Tourism Management

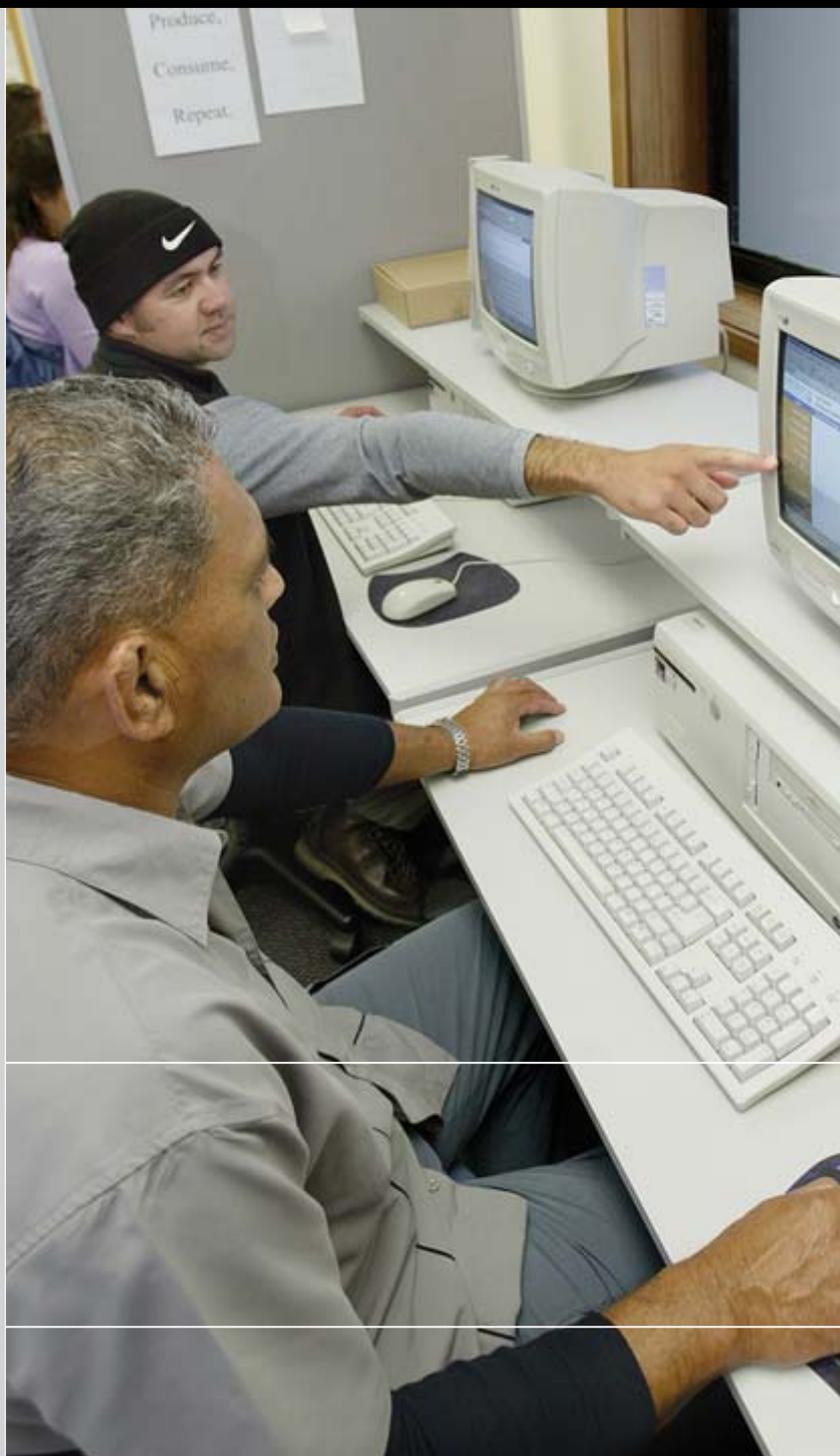
## Graduate Diplomas at Lincoln University are:

- Graduate Diploma in Applied Computing
- Graduate Diploma in Applied Science
- Graduate Diploma in Business Sustainability
- Graduate Diploma in Commerce
- Graduate Diploma in Commerce (in Transport and Logistics)
- Graduate Diploma in Environmental Toxicology
- Graduate Diploma in Landscape Studies
- Graduate Diploma in Leisure Events Management
- Graduate Diploma in Māori Planning
- Graduate Diploma in Recreation Management
- Graduate Diploma in Resource Studies
- Graduate Diploma in Social Science
- Graduate Diploma in Sports Management
- Graduate Diploma in Tourism Management
- Graduate Diploma in Valuation
- Graduate Diploma in Viticulture and Oenology

# Postgraduate research themes, key focus areas and programme options

Postgraduate research themes include:

- Agricultural and Primary Production
- Biological and Physical Sciences
- Food and Health
- Applied Computing
- Business and Economics
- Environmental Design and Management
- Māori Development
- Society and Culture



# Agricultural and Primary Production

## Description

Agricultural and Primary Production have been taught and researched at Lincoln University since 1878. Specific areas of staff and postgraduate research are:

- Agribusiness, e.g., agricultural and horticultural production; food and fibre processing; finance; international business; marketing; personnel management
- Agricultural Science, e.g., crop science, pasture, agronomy, pest and disease control, animal nutrition, molecular biology, soil and environmental quality and organic production
- Animal Science, e.g., animal breeding and genetics, molecular genetics of animal production, health and welfare, minerals and vitamin nutrition, interaction of nutrition and immunology, parasite control, vaccine development, sustainable animal production, reproductive biology, computer tomography of animal composition, grazing behaviour, pastoral farming systems
- Biosecurity, e.g., molecular taxonomy and DNA diagnostic procedures to identify exotic pests and diseases; intelligent computing for modelling biosecurity risk assessments and pest invasiveness
- Crop Sciences, e.g., water use studies; predicting development and flowering of crops; annual crop rotation effects on weeds and soil fertility; interactions with weeds, pests and diseases; production of high quality seed crops; and the use of biotechnological methods for improving crop yields
- Dairy Science, e.g., genetics and breeding, molecular genetics of health and welfare; mineral nutrition; feeding and management systems; mineral leaching, environmental and economic sustainability of farming systems
- Farm Management, e.g., agribusiness and industry analysis; business strategies/ entrepreneurship; decision making and technology adoption; employment relations and labour management; farm financial management; farming and horticultural systems analysis; horticultural history; information and decision systems; regional and national issues; risk perceptions and management; rural development
- Forestry Studies, e.g., near-natural management of plantation forests; agroforestry including shelter and soil conservation forestry; control of weeds, pests and diseases; aspects of forest valuation
- Horticultural Sciences, e.g., horticultural production, Integrated Pest Management; horticultural management, viticulture, processing, marketing
- International Rural Development, e.g., livelihoods analysis, gender and development, rural enterprise, pro-poor tourism, rural extension, micro-finance, aid projects, project management (developing countries), community development, inter-cultural communication, sustainable development



# Agricultural and Primary Production

- Pasture Science, e.g., investigating the role of high nutritive value species (lucerne, red clover, sub clover, chicory) as alternatives to ryegrass/white clover in drought prone areas; Comparison of Caucasian and white clover performance under grazing; Utilizing crop simulation models to investigate the effects of climate change and drought intensity on lucerne growth, development and nutritional quality; The interaction between pastures and trees; Grazing preference of sheep influences animal growth rates and pasture composition dryland sheep, high country, and dairy farms; Plant protection
- Plant Protection, e.g., biological control of weeds, pests and diseases, integrated pest management; population ecology, seed pathology; disease risk assessment and forecasting; agro-ecology; grape pest and disease management; weed science and management; plant pathology; entomology
- Agro-ecology and Organic Production, e.g., conservation biocontrol; population ecology; soil functional biology; soil fertility; pest and disease control; organic production techniques
- Weed Science, e.g., biological control of weeds; weed ecology and biology; integrated weed management
- Seed Science and Technology, e.g., quality seed production; seed quality assurance; post-harvest seed technology; seed pathology; seed testing
- Viticulture, e.g., grapevine photosynthesis, flowering and fruit set, fruit composition, vine water relations and nutrition, bird management in vineyards, phytoalexins in grapes & wine, rootstocks and plant material, biochemical and molecular studies on aroma precursor development.

## Employment opportunities

Agribusiness graduates work for banks, fertiliser companies, seed companies, large scale farms, agricultural processors, agricultural marketers and international exporters. Agricultural Science graduates are moving into research positions with Crown Research Institutes and consultancy positions within exporting companies, primary production industries and Treasury. Other graduates fill technical roles, research management positions and a range of positions within Government operational agencies.

## Qualification options in Agriculture and Primary Production

**Graduate Certificate in**  
Business Sustainability  
Commerce

**Graduate Diploma in**  
Organic Agriculture  
Viticulture and Oenology  
Environmental Toxicology  
Applied Science  
Property Management  
Valuation  
Business Sustainability  
Commerce

**Postgraduate Certificate in**  
Commerce

**Postgraduate Diploma in**  
Applied Science  
Horticultural Science  
Agricultural Science

**Bachelor of**  
Science (Honours)  
Agricultural Science (Honours)  
Viticulture and Oenology (Honours)

**Master of**  
Applied Science  
Horticultural Science  
Agricultural Science  
Professional Studies  
Science  
Commerce (Agricultural)  
Property Studies

**PhD**



### Brian Patchett Currently studying: PhD (Toxicology)

"Before I came to Lincoln I had been involved in the seed industry for 25 years in various roles from research and marketing through to management.

My research project is supported by Cropmark Seeds Ltd and investigates the effects of some alkaloids on sheep and various insects. It is early days in this project but the proposed outcome is the improved control of pasture pests, by environmentally friendly means, with minimal and preferably no negative effects on grazing animals.

Being a student and doing research "beats working". Even though I work very hard and put in some long hours it is the "struggle that is the prize". Every day there is something interesting to look forward to, or some problem to solve."



**Sathiyamoorthy Meiyalaghan (Mei)**  
**Currently studying:** PhD in Plant Biotechnology

“The Potato Tuber Moth (PTM) is one of the most economically damaging insect pests of potato crops. My research involves the development of transgenic potatoes with Bt-genes to confer resistance to PTM.

Application of genetic engineering in food crops, including the potato, has raised public concerns. To help address these concerns, it is desirable in potato to couple high-level expression of the transgene in the foliage with no expression in the tubers (potato) which I hope will be the outcome of my research.

I have found Lincoln to be a good place to learn new skills and the support for postgraduate students is very good.”



# Biological and Physical Sciences

## Description

Biological sciences have been taught at Lincoln University for many years. Specific areas of staff and postgraduate research are:

- Biochemistry & Cell Biology, e.g., proteases and their inhibitors, the relationship between enzyme activity, pH, temperature and tenderness, The effect of stress on the enzymes and meat quality, how and why changes in processing conditions alter meat quality
- Biotechnology e.g., micropropagation, pathogen elimination, germplasm storage, production of haploid plants, somatic cell genetics and genetic engineering; molecular plant breeding, selection of traits for improved plant cultivars
- Ecology and Wildlife Management, e.g., plant and animal conservation; native ecosystems ecology; tree rings and climate change; biology and ecology of rare and endangered species; off-shore island ecology; species endemism and biodiversity
- Entomology, e.g., taxonomy and systematics; insect pest management; biological control; invasive species; insect diversity and conservation; ecotoxicology
- Evolution, e.g., co-evolution of hosts and parasites; speciation rates of mainland and off-shore island flora and fauna; phylogenetic relationships in various taxa.
- Human Movement & Sports Science, e.g., human movement & sports science- simulated altitude training, exercise and health relationships, physical activity and fitness levels of new zealanders, and sports performance research.
- Microbiology, e.g., movement of bacteria through soil and in groundwater, diffuse microbial pollution, biological control of nematodes in animals; plant pathology, microbial biocontrol agents, soil microbial community structure and function; environmental tracking of microbes
- Molecular Biology e.g., molecular systematics/taxonomy, molecular plant pathology; dna diagnostic tools, gene isolation, characterisation and expression.
- Plant Physiology, environmental impact on fruit crop development and yield; uv-b radiation effects on plant cell function; the physiological basis of mineral nutrition.



## Qualification options in Biological and Physical Sciences

### Graduate Diploma in

Organic Agriculture  
Viticulture and Oenology  
Environmental Toxicology  
Applied Science

### Post Graduate Diploma in

Applied Science  
Horticultural Science  
Agricultural Science

### Bachelor of

Science (Honours)  
Agricultural Science (Honours)  
Viticulture and Oenology (Honours)

### Master of

Applied Science  
Horticultural Science  
Agricultural Science  
Professional Studies

### Master of Science

### PhD

### Duncan McLane

B Sci. Hons. (Animal science)

**Currently:** Farm Technical Officer for Landco Farming

"I am doing a joint project between Lincoln University and Landcare Research investigating the possibility of breeding a captive population of stoats year round. The eventual goal of the research is to develop a viable control method for stoats and thus halt the continuing decline of native bird populations.

Initial findings suggest that it is possible to attain out of season breeding by the manipulation of day-length. In effect the captive stoat has been tricked into thinking that it is the breeding time of the year when outside it isn't.

In the next 10 years it is thought that there will be several native bird species that will become extinct. The stoat is one of the most invasive predators to have come to New Zealand and is implicated in the continuing decline of native birds. This research is an important part of the search for an effective, sustainable and humane control method."

- Soil Science, e.g., nutrient cycling, transformations and bioavailability, heavy metal availability and toxicity, soil patterns and variability, landscape history and soil resource evaluation, forest soil processes, soil water relationships, soil quality and sustainability, leaching losses from soils, gaseous emissions from soils, climate change, plants and crops, organic waste application to soils; structure and function of soil microbial communities.
- Toxicology, e.g., biochemical toxicology (p450 enzymes, xenobiotic metabolism, biomarkers); veterinary toxicology (mineral toxicities, chelation therapy, sporidesmin toxicity); environmental toxicology (heavy metal and stormwater pollution, endocrine disruptor chemicals); toxicopathology, toxicokinetics and risk assessment (earthworm neurotoxicology, 1080 toxicity).
- Water Quantity & Quality, e.g., groundwater quality and quantity, irrigation engineering, sustainable water management, waste disposal and pollution.

### Employment opportunities

Our graduates work as scientists in many New Zealand and overseas research institutes or as academic staff in the universities. Many work for regional councils and government departments in New Zealand, in management, technical and policy positions.

#### Kathrin Affeld

##### Currently studying:

PhD Ecology and Conservation

“I’m looking at invertebrate communities that live in epiphytes and their response to climate change. The epiphytes I’m interested in are high up in the canopy, so I have to climb about 15-25 m into the trees to take my samples and set up the experiments.”

“Knowing what species live in this unique habitat and their abundance will be important in terms of national biodiversity inventories and global species estimates. In addition, invertebrates and epiphytes play crucial functional roles in forest ecosystem dynamics. Understanding their distributions and interactions is fundamental for predicting and dealing with the threats posed by habitat loss and climate change. Data from my study could further be incorporated in climate change models and used to identify conservation priorities.”



*“I have found Lincoln University to have a very friendly and relaxing atmosphere and my supervisors are very supportive and knowledgeable”*



# Food and Health

## Description

Food microbiology and food biochemistry and nutrition have been taught at Lincoln University for many years. The coverage has been recently increased to include food engineering and food processing, such that Lincoln can now offer complete programmes at the postgraduate level. Recently postgraduate research has been conducted on human health topics. Specific areas of staff and postgraduate research are:

- Animal models for human health, e.g., Batten disease and a model of cataracts in humans.
- Food biochemistry, e.g., food composition, nutritive value and sensory evaluation.
- Food fluid technology, e.g., methods of food preservation, fortification, rheology and energy flows in processing.
- Food microbiology, e.g., quality control and food safety.
- Oenology, e.g., polyphenols in red and white wines, flavour development in white wines, heavy metals in grapes and wines, organic style wines, wine quality and sensory evaluation.

## Employment opportunities

Our graduates work in research organisations or in the food industry both nationally and internationally. Since the food industry is varied and vast there are many opportunities for employment. Research in human health would allow employment in medical research.

## Qualification options in Food and Health

**Graduate Certificate in Business Sustainability Commerce**

**Graduate Diploma in Property Management Valuation Business Sustainability Commerce Organic Agriculture Viticulture and Oenology Environmental Toxicology Applied Science**

**Post Graduate Certificate in Commerce Post Graduate Diploma in Commerce Applied Science Horticultural Science Agricultural Science**

**Bachelor of Commerce (Honours) Science (Honours) Agricultural Science (Honours) Viticulture and Oenology (Honours)**

**Master of Applied Science Commerce (Agricultural) Commerce and Management Professional Studies Property Studies Applied Science Horticultural Science Agricultural Science**

## PhD



**Meegalla Chandraratne**  
PhD (degree complete)

“My research involved the evaluation of meat quality characteristics using computer vision technology.

The result of this work is an imaging system with image and texture analyses based feature extraction, multivariate statistical techniques based feature selection and a neural network based classification and prediction model.

I found the support services to be very good. Supervisors provided the necessary support, guidance and encouragement to complete my studies.”



**Hannah Lee**  
Currently studying: PhD

“Before I came to Lincoln I worked as a Quality Control Officer and Research Assistant. My research involves studying Cataractogenesis with cultured sheep lenses”

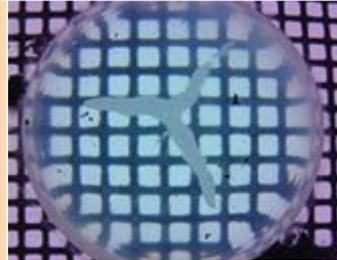




**Gareth Wilson**  
**Currently studying:** PhD

"I am researching the genetic basis of a hereditary sheep cataract. The proposed findings from my research will be finding the genetic mutation responsible for sheep cataract. I plan to develop a simple genetic test to predict which lambs will be affected by it and also gain some insight into the mechanism of cataract formation.

The genetic test will make the sheep cataract a better experimental model for human cataract, allowing various treatments to be tested more easily. The insights I gain into the formation mechanism of the sheep cataract may also have implications in the treatment of human cataracts."



Professor Steve Wratten and PhD student, Sam Scarratt are pictured here in the Lincoln University vineyard. Sam is working on the management of the grapevine's understorey to enhance the number of natural enemies of the pests which attack the grapes and leaves.

**Matthew Muir**  
**Currently studying:** PhD

"My research involves studying the changes in proteins during cataract formation in the sheep model of cataract.

The proposed outcome of my research is in understanding the mechanism of cataract formation in the sheep lens and an understanding of the normal growth of the sheep lens.

Lincoln is great, it's a close research network and the research facilities are excellent"



# Applied Computing

## Description

The research programmes in Applied Computing have a common focus on solving real world problems encountered in many areas. The approach is applied, and students enjoy the challenge of making a contribution to solving practical problems. Specific areas of Post Graduate research and teaching interest are:

- Computer Graphics, e.g., curve and surface approximation techniques and the use of complex adaptive systems to construct geometric shapes.
- Computing and Education, e.g., analysis of the factors which determine the success of students studying computing, the development and effectiveness of e-learning technologies and the use of computer-based technologies such as robots to encourage school pupils into science and engineering disciplines.
- Data Management, e.g., appropriate use of spreadsheets and databases, the development of data transformation tools and data mining
- Decision Support Systems, e.g., use of neural networks to solve a wide range of problems.
- Image Processing and its applications, e.g., scientific research and augmented reality.
- Parallel and GRID computing systems, e.g., how these can be used to carry out large scale simulations which require extensive computing resources.
- Simulation and modelling, e.g., to a wide range of systems including environmental systems, biological and ecological systems, industrial systems and transport systems
- Visualization, e.g., both spatial data such as weather patterns and non-spatial information such as commercial data.

## Employment opportunities

Students who have studied Applied Computing have the background necessary to succeed in any position where computing is important, and that could involve any industry! They can become software engineers, web site managers, system test engineers, database administrators, network managers or IT support personnel in a wide range of industries. They may use some of the more specialised skills outlined above, to obtain employment involving research and development in government or private organisations, or they may go into education.

## Qualification options in Applied Computing

Graduate Certificate in Applied Computing

Graduate Diploma in Applied Computing

Post Graduate Certificate in Applied Computing

Post Graduate Diploma in Applied Computing

Bachelor of Applied Computing (Honours)

Master of Applied Computing

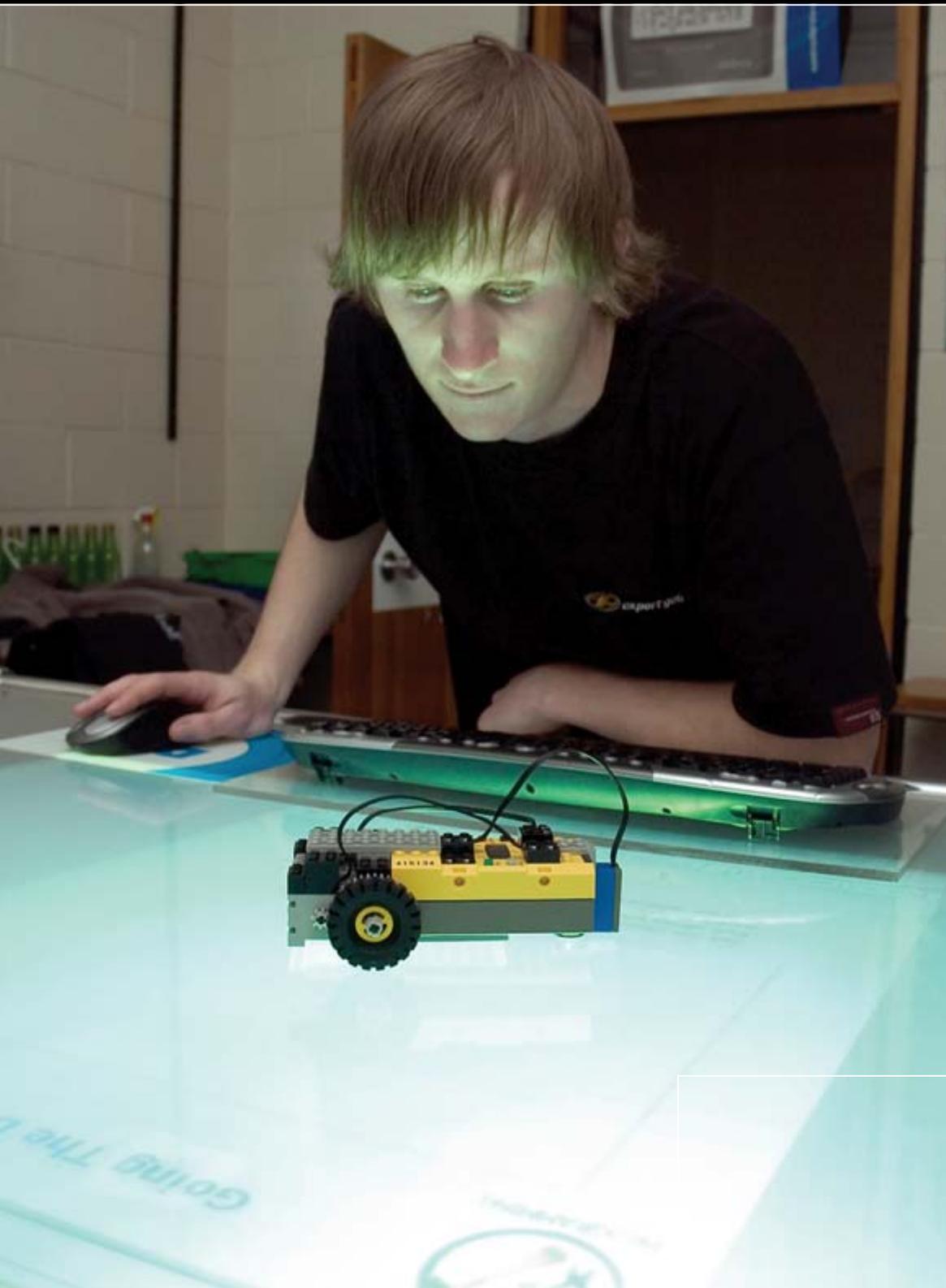
PhD



**Zhi Xie**  
Currently studying: PhD

“Before I came to Lincoln I was a medical doctor in China. Now I am doing my PhD on modelling in biochemical pathways. My findings will improve the current modelling methodology. The predictive outcome of a successful simulation will guide the experimentation in living organisms to learn more about them.

I enjoy that there are small classes and there is good accessibility to lecturers. I am also very satisfied with the level of teaching and my supervisor is great. When I finish my PhD I would like to pursue a career in teaching and research.”

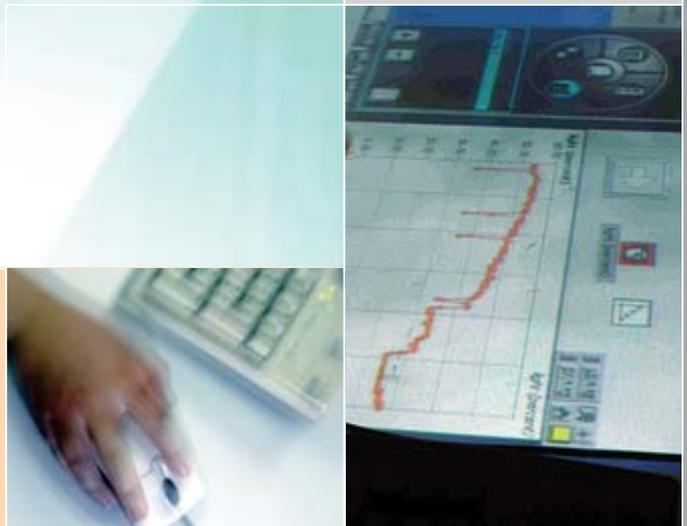


**Craig Oliver**  
Bachelor of Applied  
Computing (Honours)

“My research involves the creation of tools in the LabView™ / RoboLab™ environment to simplify the creation of electronic Activity Cards. Electronic Activity Cards are based on traditional Activity Cards which provide students with an independent learning environment. Electronic Activity Cards support media such as video, audio and interactive experiments and simulations. Specifically the system being developed is designed to teach engineering skills and can be used in conjunction with the ROBOtable and Lego® Mindstorm™ robots. The ROBOtable is a system developed in conjunction with Tufts University in Boston and provides a highly interactive environment.

The proposed outcome of my research is a working system that will allow even a relatively unexperienced user to create Activity Card for students.

I have found the support for postgraduate students to be excellent”



# Business and Economics

## Description

Lincoln University provides a wide range of postgraduate study and research options in Commerce disciplines. In total more than 40 postgraduate courses are offered each year in the areas listed below. MCM and PhD thesis supervision is provided by internationally recognised staff. Specific areas of Commerce Post Graduate research and teaching at Lincoln are:

- Accounting, e.g., auditing, information systems, taxation, management accounting.
- Agribusiness, e.g., farming systems development, horticultural management, planning methods, management information systems.
- Business Management, e.g., business strategy, organization behaviour, risk management.
- Development, e.g., International Rural Development, project appraisal, development economics.
- Economics, e.g., microeconomics, macroeconomics, international trade, environmental and resource, econometrics, agricultural economics.
- Finance, e.g., futures and options, commercial banking, corporate policy.
- Forestry Business, e.g., forest valuation, forest utilisation.
- Hotel and Institutional Management, e.g., strategic services tourism.
- Human Resource Management, e.g., labour relations, labour management.
- Marketing, e.g., consumer behaviour, supply chain, services, market research.
- Property valuation, e.g., property investment and portfolio analysis, property asset management, valuation law.
- Trade & Environment, e.g. partial equilibrium modelling.

## Employment opportunities

Our graduates have found a wide range of employment options, both nationally and internationally, including: accountancy; research and management in business; marketing analysts; business advisers and consultants; analysts and policy advisers in New Zealand and other country central and local government (The Treasury, Reserve Bank, and Ministry of Economic Development); University or Polytechnic lecturers. There are opportunities in teaching at all levels.

## Masters of Business Administration (MBA)

**New in 2006 (begins July/August)**

The MBA emphasises the application of learning in practice. Working in small peer groups, students will enjoy collaborative learning in rigorous and intensive workshops facilitated by tutors. These workshops offer different learning interventions, including seminars from practitioners, as well as faculty. They occur regularly across the year, focusing on different aspects of managing. This approach enables students to arrive fresh for the start of each module, and to focus on learning without interruption for days at a time.

We aim to enhance students' comprehension of how their organisation works, and their network of contacts, so facilitating career progression. The Lincoln MBA can be undertaken full-time over 12 months or part-time over 30 months.

See [www.lincoln.ac.nz/mba](http://www.lincoln.ac.nz/mba) for more information.

## Qualification options in Business and Economics

**Graduate Certificates in**  
Business Sustainability  
Commerce

**Graduate Diplomas in**  
Property Management  
Valuation  
Business Sustainability  
Commerce

**Postgraduate Certificate in**  
Commerce

**Postgraduate Diploma in**  
Commerce

**Bachelor of**  
Commerce (Honours)

**Master of**  
Applied Science  
Business Administration (MBA)  
Commerce (Agricultural)  
Commerce and Management  
Professional Studies  
Property Studies

**PhD**





**Abel Alonso**  
**Currently studying:** PhD

"I am studying visitors' experience at wineries in New Zealand. My study includes investigating their level of involvement with wine, their satisfaction with their overall winery experience, and demographic aspects, including their age, income, what they purchase, and their level of expenditure.

A number of findings have been made. For example, winery visitors clearly belong to the wealthier segments of the population, particularly international visitors. Domestic visitors spend clearly more than overseas visitors, and are overall more satisfied with their experience, while no clear differences were reported between males and females.

An outcome of particular interest involved developing a wine involvement index (WIX) to investigate winery visitors' behaviour. This measurement tool was one of the most significant contributions of my research.

Hopefully, the wine and wine tourism industries will take notice of the findings and use the information obtained in my research to gain more insights about wine consumers and winery visitors."



**Anita Wreford**  
**Currently studying:** PhD in Economics

"In my research I'm linking economics with science. I'm using an agricultural trade model and extending it to include greenhouse gas emissions from agriculture. I will then use it to predict the impacts of changes in trade policy, and changes in environmental policy, such as the Kyoto Protocol, on New Zealand agriculture.

The research will help give a better picture of the impacts of different policies and highlight areas that make a big difference to agriculture. Ideally it will be used as a tool to inform policy makers of the likely implications of policies .

I also work as a research associate in the AERU, and have had opportunities to present my work at national and international conferences.

There is a good network of support for postgrads, lots of help and there are systems in place to make sure you stay on track."

*Anita (right) with one of her supervisors, Caroline Saunders. "I've had excellent support from my supervisors, who are incredibly helpful and encouraging."*



# Environmental Design and Management

## Description

Lincoln University has the longest running research, teaching and supervision programmes in environmental management in New Zealand and is a world leader in the area. Specific areas of staff and postgraduate research and teaching interests are:

- Environmental Economics, e.g., non market valuation; choice modelling, fisheries economics, recreational economics, water resource allocation.
- Environmental Engineering, e.g., irrigation, sustainable buildings, flood management.
- Environmental Policy and Planning, e.g., green planning, international policy, sustainable tourism, water resource management, energy, community based management, development theory and practice, co-management and participatory approaches, environmental monitoring, introduced animal management.
- Landscape Architecture, e.g., sustainable design and urban form; design theory and critique; landscape ecology.
- Māori Environmental Policy, Planning and Design, e.g., Iwi resource management and planning.
- Transport Studies, e.g., logistics, transport policy, sustainable transport design, alternative transport.
- Urban Design and Regional Planning, e.g., implementation of the Resource Management Act, regional planning, Long Term Community Plans, consultative approaches, environmental law.

## Employment opportunities

Our graduates work in all levels of central and local government in New Zealand, including policy agencies (e.g., Ministry for the Environment) and management organisations (e.g., Department of Conservation). Many work for local government in environmental policy, monitoring and investigations. Others work for consultancies and private resource management organisations. There are also opportunities in teaching at all levels.



**Marion Read**  
PhD in Landscape Architecture

“My research focused on a distinct landscape area and involved interviewing occupants and key players in the management of that area, plus the collection and analysis of many relevant documents.

My research results imply that the management of landscapes must recognise the complexity of the landscape and involve the participation of the community.

My experience as a postgraduate student here has been very good. Facilities are excellent, and I have had superb supervision.”

## Qualification options in Environmental Design and Management

### Graduate Certificates in

Māori Planning  
Landscape Studies  
Resource Studies  
Commerce (in Transport and Logistics)  
Recreation Management  
Social Science  
Sports Management  
Tourism Management

### Graduate Diplomas in

Environmental Toxicology  
Māori Planning  
Landscape Studies  
Resource Studies  
Commerce (in Transport and Logistics)  
Applied Science  
Leisure Events Management  
Recreation Management  
Social Science  
Sports Management  
Tourism Management

### Postgraduate Certificate in

Indigenous Planning  
Landscape Studies  
Resource Studies  
Parks, Recreation and Tourism Management  
Social Science  
Sports Management  
Tourism Management

### Postgraduate Diploma in

Indigenous Planning  
Landscape Studies  
Resource Studies  
Parks, Recreation and Tourism Management  
Social Science  
Tourism Management

### Bachelor of

Environmental Management (Honours)  
Landscape Architecture (Honours)  
Māori Planning and Development (Honours)  
Recreation Management (Honours)  
Social Science (Honours)  
Tourism Management (Honours)

### Master of

Applied Science  
Applied Science (Environmental Management)  
Environmental Policy  
Landscape Architecture  
International Nature Conservation  
Natural Resources Management and Ecological Engineering  
Professional Studies  
Resource Studies  
Indigenous Planning and Development  
Parks Recreation and Tourism Management  
Social Science  
Tourism Management

### PhD



**Ulrike Fertsak**

**Currently studying:** Master for Natural Resources Management & Ecological Engineering - Joint Master of BOKU (Vienna) and Lincoln University

“My research involves field work using GPS measurements and analysing data with GIS software.

The proposed outcome of my research is a precise measurement of how much area of a paddock is covered with urine deposits on dairy and medium hill country pastures. The figures I get will impact on the potential for nitrogen loss which is used, for example, in the use of computer models to calculate nitrate leaching losses. Furthermore, it will give a more precise calculation of how much nitrogen is returned to the soil, and the amount of fertilizer required can be calculated more accurately.

I think the supervision is very good. My supervisor and co-supervisor always have time for me and I can just pop in if I have a question or need advice. They are very supportive. The same goes for lecturers, they often reply instantly to an email or suggest a time to meet if you have a problem.”



**Nicolas Marchand**

**Currently studying:** PhD in Environmental Management

“My project is about riparian management (the management of river and stream margins). I have selected two different rivers as case studies in the Canterbury region. The main objective is bringing together or linking biophysical understanding with stakeholder inputs for management. I have completed the biophysical understanding of the rivers which I used as a building block for the suggesting management options for different sections of the river. I am currently consulting those options amongst stakeholders.

I hope I can contribute with the way we approach river management, improving the understanding of what can be done from a physical perspective but also taking into consideration stakeholders perspectives.

When I finish my PhD I would like to work in an environmental agency to implement and consolidate what I have learnt throughout the years.”

*Photo top: Ulrike shutting down the base station for differential GPS measurements (in the rain, at a farm near Taupo).*



# Maori Development

## Description

**Specific areas of staff and postgraduate research and teaching interest are:**

1. 'Pure' Māori Studies (Language, Culture, Planning/ Policy), to equip students with a Māori-specific, or focussed, research degree.
2. Applied Māori Studies within specific disciplinary contexts, i.e., Postgraduate students can undertake research with a Māori dimension in any of the following areas at Lincoln University. Specific course advice will be required to develop an appropriate research and supervision programme. The following areas might be considered:
  - Language
  - Culture
  - Planning/policy
  - Indigenous Development
  - Business
  - Tourism
  - Environment
  - Biosciences
  - Agriculture
3. 'Universal' themes for Indigenous Peoples (including Māori) Development.

## Employment opportunities

There are opportunities for employment public service/public sector, Iwi authorities, teaching and research.

## Qualification options in Māori Development

It is possible to incorporate Māori Development study into all postgraduate qualifications at Lincoln University.

**The specific Māori Development qualifications include:**

**Graduate Certificates in**  
Māori Planning

**Graduate Diplomas in:**  
Māori Planning

**Postgraduate Certificate in**  
Indigenous Planning

**Postgraduate Diploma in**  
Indigenous Planning

**Bachelor of**  
Māori Planning and Development  
(Honours)

**Master of**  
Indigenous Planning and Development  
**PhD**

### Henare Johnson

**Currently studying:** Master of Indigenous Planning and Development (Tourism)  
Trade Project Co-ordinator

"My research is based on 'Broadening the perception of Maori Tourism'. It involves networking with people involved at various levels of the tourism industry.

The key finding so far is that there is a very limited perception from international visitors of what Maori tourism is. More interestingly is that many New Zealanders (Maori included) have the same limited perception of Maori tourism. The major implication and challenge is to gain an understanding of what Maori tourism is.

I think the size of the campus has been a bonus, particularly knowing that supervisors and lecturers are able to assist in those strenuous times. If I wasn't at Lincoln I wouldn't have this great job with Tourism New Zealand."



"This photo was taken at Whatipu beach where I was escorting international media from the Netherlands on a Maori themed product in Auckland called "Potiki Adventures" for Tourism New Zealand. From left to right: Henare, Mirjiam Bleeker (freelance photographer), Bianca Ranson, Inez Van Oord (Editor of Happinez Magazine).



**Huia Pacey**

**Currently studying:** Master of Indigenous Planning and Development

“Before I came to Lincoln I was a tribunal claim researcher, environmental advocate and tribal development worker for my iwi.

I am researching the risks and opportunities for indigenous resource management utilising GIS. As an integral part of the thesis there will be a toolkit (resource manual) developed identifying the risks and opportunities with checklists and options. The implications of my research will be the development of a fully informed integration of the GIS into the tribal development programme.

When you meet up with other postgrad students you can find yourself engaged in a fascinating cross disciplinary discussion - that is often the highlight of my day. There are some great people doing great things on campus.”



# Society and Culture

## Description

Lincoln University has well-established research, teaching and supervision programmes in various aspects of society and culture with both a New Zealand and an international focus. Specific areas of staff and postgraduate research and teaching interests are:

- Applied and thematic social research, e.g., society and environment, society and nature, urban and regional studies, urban social planning, social impact studies, cultural landscape studies.
- Māori, e.g., Māori society and culture including language, Māori studies with a sociological, historical and/or geographical orientation.
- Parks and Recreation, e.g., outdoor and resource based recreation, protected natural area management, urban parks, outdoor and environmental education, parks management, community recreation, leisure policy, commercial recreation, inclusive recreation, arts and culture, community development, leisure studies.
- Social Science, e.g., human geography, social and economic history, communication, sociology, social and environmental psychology, political studies, philosophy.
- Sport, e.g., sports history, sports management, sports policy, sport and society.
- Tourism, e.g., tourism studies, tourism management and planning.

## Employment opportunities

Our graduates work in all levels of central and local government and the private sector in New Zealand and overseas. Many have also been employed in research and teaching. They have benefited from the flexibility of mind that comes from active involvement in cross- and multi-disciplinary social science with an emphasis on problems that are theoretically challenging but empirically grounded.

## Qualifications options in Society and Culture

### Graduate Certificates in

Māori Planning  
Recreation Management  
Social Science  
Sports Management  
Tourism Management

### Graduate Diplomas in

Applied Science  
Leisure Events Management  
Māori Planning  
Recreation Management  
Social Science  
Sports Management  
Tourism Management

### Postgraduate Certificates in

Indigenous Planning  
Parks, Recreation and Tourism Management  
Social Science  
Sports Management  
Tourism Management

### Postgraduate Diplomas in

Indigenous Planning  
Parks, Recreation and Tourism Management  
Social Science  
Tourism Management

### Bachelor of

Māori Planning and Development (Honours)  
Recreation Management (Honours)  
Social Science (Honours)  
Tourism Management (Honours)

### Master of

Applied Science  
Indigenous Planning and Development  
Parks Recreation and Tourism Management  
Social Science  
Tourism Management

### PhD



#### Pablo Arsenault

**Currently studying:** Masters in Applied Science, with a focus in educational psychology and experiential/outdoor education in an international education context.

“My research has involved travelling around the world and collecting interview data from students and teachers, mostly at an international school in India, but also in Canada and Singapore.

My aim was to uncover the intersection between experiential education and student experience and development in the multi-cultural and international education settings. Having interviewed students from many different cultures I am faced with a great diversity in some of my data and also some surprising similarities between responses.

I hope the research will inform educational programming and curriculum development in experiential education and specifically international education.”





**Sasha Buchmann**  
**Currently studying:**  
PhD – Film Tourism

“I investigate film tourists: domestic and international tourists who visit a site that is or has been used for filming purposes. The aim of my project is to understand the motivations, expectations and experiences of film tourists in Aotearoa New Zealand.

There is a lot of field work involved –and travelling!

Though film tourism has been reported anecdotally all over the world, no systematic research has been done so far. Thus I am not sure of the outcome yet. I believe that there is something unique about this form of special-interest tourism, something more than just the obvious (visiting a place that does not exist in real life!).

I have studied at Universities in Germany, Chile and Australia. Lincoln has a great campus with good opportunities for tutoring/lecturing to gain teaching experience. And there are incredible outdoor opportunities close by.”



# Research Centres

Lincoln University operates a number of internationally renowned research centres which attract researchers and postgraduate students. A full list of these centres can be found at [www.lincoln.ac.nz/research/default.htm](http://www.lincoln.ac.nz/research/default.htm). Examples include:



## AERU

The Agribusiness and Economics Research Unit (AERU) provides research expertise for a wide range of organisations. The AERU conducts research contracts for clients while University research can be supported by AERU through supervision of postgraduate research. Research clients include Government Departments, both within New Zealand and from other countries, international agencies, New Zealand companies and organisations, individuals and farmers. The major research areas supported by the AERU include: natural resources, environment and public policy; agricultural economics; regional development; trade and environment; rural sociology; and marketing (both institutional and consumer).

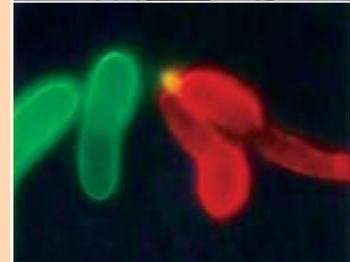
The AERU website is: [www.lincoln.ac.nz/aeru](http://www.lincoln.ac.nz/aeru)



## Bio-Protection

Bio-Protection is a Centre of Research Excellence (CoRE) that pursues multidisciplinary research to meet the biosecurity and pest management needs of New Zealand's plant-based primary industries and natural ecosystems. Hosted by Lincoln University, many of the Centre's staff and postgraduate students are situated within the greater Lincoln campus (the University and surrounding Crown Research Institutes). Current research programmes span a range of applications including computational intelligence, molecular biology, biotechnology and agro-ecology. Bio-Protection's well resourced laboratories are complemented by excellent field facilities and the NZ Biotron, one of only three plant growth facilities of its kind worldwide.

The CoRE's website is: [www.bioprotection.org.nz](http://www.bioprotection.org.nz)



## C-fACS

The Centre for Advanced Computational Solutions or C-fACS (Sea-fax for short) is a new type of research centre that combines the recognised problem-solving abilities of several Lincoln academic staff members with partners from the local business community to provide a framework for solving industry related problems. The long term goal of C-fACS is to build an internationally renowned centre for high quality research based on innovative solutions to industry relevant problems. The group combines recognised academic and commercial skills in several key computational areas including Artificial Intelligence, Machine Vision, Image Analysis, Computational mechanics and environmental modelling, Structural Modelling, Process Optimisation, and Neural Networks and Fuzzy Logic. By using these skills to attract challenging projects from industry, both locally and internationally, as well as grants from various sources, C-fACS plans to provide funded research opportunities for postgraduates.

The C-fACS website is: [www.cfacs.co.nz](http://www.cfacs.co.nz)



## Centre for Soil and Environmental Quality

The Centre was created to bring together the expertise and experience of their staff in soil and environmental quality research for the benefit of New Zealanders. It was built upon a 120-year tradition of education and research in the science and management of natural resources at Lincoln University. Today the Centre facilitates innovation and provides practical solutions to our clients' problems through contract research programmes that are multidisciplinary, and developed by consultation. Currently we have environmental projects underway that include: 'Amelioration of forage system impacts on the environment', 'Reducing P leaching for sustainable dairy farming', 'Reducing N and P leaching from dairy factory effluent', and 'Nitrous oxide emissions from land application of dairy factory waste', to mention but a few.

In support of this work the Centre is well resourced with modern scientific equipment and has the most advanced lysimeter laboratory facility in the Southern hemisphere. The programmes also support a large multicultural group of highly motivated post-doctoral, PhD and MSc students carrying out internationally regarded research in a friendly environment.

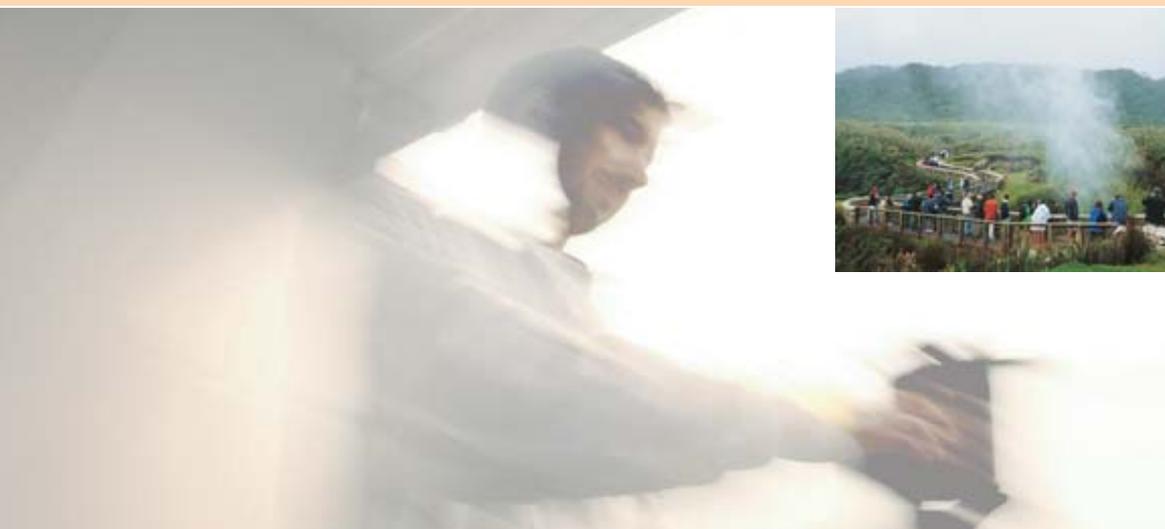
The Centre for Soil and Environmental Quality website is: [www.lincoln.ac.nz/cseq](http://www.lincoln.ac.nz/cseq)



## TRREC

The Tourism, Recreation Research and Education Centre (TRREC) is an initiative at Lincoln University to facilitate interdisciplinary tourism, recreation and leisure research and education opportunities, particularly those that focus on public resource issues including the public sector interface with the tourism and recreation industries. Major research themes, many of which are associated with postgraduate research opportunities, are: Tourism Planning in New Zealand; Environmental Indicators of tourism impacts; Energy and Resource Flows in the Tourism Sector; Tourism and Development; Cultural Tourism; and, Rural and Small Business Tourism.

TRREC's website is: [www.lincoln.ac.nz/trrec](http://www.lincoln.ac.nz/trrec)



# Enrolling for Postgraduate Study

## English Language requirements

You will satisfy the English language requirements for admission to Lincoln University if:

- English is your first language.
- You hold a New Zealand entrance qualification which includes an 'English-rich' subject (as determined by the University)
- You have been granted admission *ad eundem statum* **and**
- you studied and were instructed in English in a country where English is the main language; **and**
- your study included an 'English rich' subject.
- You can provide evidence that you have gained a satisfactory result in one of the approved English language tests set out below.

### Approved Language Tests (Postgraduate entry)

IELTS (Academic)	6.5 Minimum score for any individual component (greater than or equal to) 6.0
TOEFL	600 paper 250 computer Essay rating (TWE) 5
Cambridge	CAE B CPE B
LU EAP	70%
APIEL	4
CCEL (EAP2)	B+



## Three steps to enrolling at Lincoln University\*

### New Zealand citizens or permanent residents:

#### Step 1

##### FILL OUT THE APPLICATION FORM AND SEND IT IN

- You will need to download a form from [www.lincoln.ac.nz/apply](http://www.lincoln.ac.nz/apply) or request one by calling 0800 10 60 10
- Applications are required by 30 November for semester one and 30 April for semester two – to ensure timely processing
- Note: PhD students can apply at any time.

#### Step 2

##### RECEIVE AN ENROLMENT PACK, COMPLETE THE FORM AND SEND IT BACK

- All students are sent an enrolment pack as soon as they are available. You should return your enrolment form by 18 December for a first semester start and 14 June for a second semester start.
- Students are admitted to postgraduate courses at Lincoln by the Academic Administration Committee so it may take 4-6 weeks before you are notified of the outcome of your application.

#### Step 3

##### COME TO LINCOLN DURING REGISTRATION WEEK AND REGISTER

- During this time you will meet with academic staff and course advisors to help you plan your programme of study.

### International students

#### Step 1

##### FILL OUT THE APPLICATION FORM AND SEND IT IN!

- Application forms for postgraduate study are available on request from the International Centre or from the website [www.lincoln.ac.nz/apply](http://www.lincoln.ac.nz/apply) or by calling 0800 10 60 10 (or +64 3 325 3826 outside New Zealand).
- Closing dates are 31 October for February intake and 31 March for July intake.
- Late applications may be accepted on a case-by-case basis.

#### Step 2

##### RECEIVE AN ADMISSION LETTER AND ENROLMENT PACK

- International Students will receive details of tuition fees and an accommodation form.
- Once all requirements have been met and Lincoln has received your fees payment you will receive a receipt and formal 'Offer of Place'. This must be presented to New Zealand Immigration when applying for a student visa.
- Students who hold a current students permit may be eligible to use our on-campus visa service. For further information please contact the International Centre.

#### Step 3

##### COME TO LINCOLN DURING REGISTRATION WEEK AND REGISTER

- During this time you will meet with academic staff and course advisors to help you plan your programme of

\*Note: The enrolment process is under review. Please see [www.lincoln.ac.nz/apply](http://www.lincoln.ac.nz/apply) for updated information.

# Accommodation

## Lincoln University student flats

Lincoln University administers 38 student flats, on or close to the campus which are popular with postgraduates. Some are equipped for four single students and there are also flats available which are suitable for families.



*Students find it convenient to live in the Lincoln University flats or Halls as they are all either on or very close to the campus.*





## Halls of Residence

### Catered Halls

The Halls are all centrally heated and communal areas are cleaned regularly. Each Hall has a common room with a kitchen containing a fridge and facilities for cooking snacks. Students have their own room and share bathrooms and laundry facilities. Each Hall also has a TV room which includes Sky TV.

The cost for the catered Halls of Residence in 2006 is NZ\$7863 (subject to change). This fee includes meals and accommodation during the April and August vacation periods.

### Self-catered Halls

There are 220 rooms in the Halls set aside for senior students who want to cook their own meals. Students share a fully equipped kitchen.

The cost for the self-catered halls in 2006 is NZ\$4366 (subject to change). This includes accommodation for the entire academic year 15 February to 1 November 2006.

## Off-Campus accommodation

The Accommodation service is based on-campus offering assistance to students wanting to go flatting or in to a private board situation.

The Accommodation Office provides:

- A list of accommodation options which is continually updated. This includes notices regarding flatmates wanted, houses to let and private board opportunities;
- An accommodation notice board on campus which lists all the current listings;
- Assistance and advice regarding accommodation options.

**For more information see**

[www.lincoln.ac.nz/accommodation](http://www.lincoln.ac.nz/accommodation)



# Money Matters

## How much will it cost?

### Course Fees

- Lincoln's fee system is based on the courses you take for each year as opposed to a set amount for each qualification.
- In 2005 the domestic student course fees were between approximately \$400 and \$650 each depending on the components of the course. This means the approximate full-year fulltime fee is between \$3200 and \$5000.
- Course fees can change from year to year.

For more information see [www.lincoln.ac.nz/calculate](http://www.lincoln.ac.nz/calculate)

### Student Loans and Allowances

Full-time New Zealand resident students may be eligible for a student allowance to help meet living costs. If you are aged between 18 and 24 years the amount you receive will depend on your parents' income. Student loans are also available to full-time or full-year part-time students to assist with tuition fees, books and course related costs. For further information see the Studylink website [www.studylink.govt.nz](http://www.studylink.govt.nz) or call 0800 88 99 00.

### Student Financial Support fund

Lincoln University has established a fund to assist students who suffer financial hardship.

- Eligibility – unusual and special circumstances that cause financial problems making it difficult to undertake study.
- Application forms – available after you register from the Student Enquiries desk.

### Budget Advice

A trained budget advisor is available to all Lincoln Students. Appointments can be made at the Student Enquiries desk.

## Other costs

Textbooks	This will vary depending on the course - Studylink allows up to \$1,000 for course related costs
Car Parking	Free and readily available
Sky TV	Free to students in the Catered Halls
Bus	\$3 – Lincoln to Christchurch city - \$2.25 with a Metrocard
Jade Stadium	A DB Draught stand ticket to the Super 12/NPC rugby is \$15. For international cricket test- \$15 per day
Westpac Centre	Breakers/Rams basketball games - \$20
Rec Centre	\$60 for all year membership, or \$40 per semester
Mrs O's	Jug of beer \$6.20
Dining hall	Hot meal, large - \$5.50, small \$4.00
NZ Flights (Air NZ)	\$210 return – Auckland, \$160 return – Wellington, \$186 return – Palmerston North \$162 return – Nelson, \$162 return – Dunedin

(Please note the above prices were correct at time of printing however are subject to change)

For more information about Christchurch and the Canterbury region try: <http://www.christchurch.org.nz>.

## Funding for postgraduate research

A large, and rapidly expanding, number of scholarships for postgraduate students are available at Lincoln University. See the scholarships website at: [www.lincoln.ac.nz/scholar](http://www.lincoln.ac.nz/scholar) for information on particular scholarships.

Because of the practical focus of much of Lincoln's research, many research projects conducted by both staff and students have input from external organisations such as Crown Research Institutes, Government operational agencies and end-user organisations. These external agencies may also offer funding assistance for thesis research. Students should enquire with academic staff before registering to determine whether there are opportunities to access external funding assistance.

**Lincoln University provides up to \$2000 per year for full time masters (one year) and PhD thesis research (three years). Students submit a budget for their thesis research for approval by the University.**

## Scholarships

### Who offers scholarships?

- Lincoln University offers a number of scholarships.
- Other organisations to offer scholarships are:
  - New Zealand Vice-Chancellor's Committee;
  - Government departments;
  - Research agencies;
  - Private companies;
  - Charitable trusts.

### What postgraduate scholarships are offered by Lincoln?

- Listed below are some of the scholarships available – for more details and listings of other scholarships see [www.lincoln.ac.nz/scholar](http://www.lincoln.ac.nz/scholar)
- There is a Scholarships office on campus where you can go for further information – **email [scholarships@lincoln.ac.nz](mailto:scholarships@lincoln.ac.nz)**.

#### Lincoln University Doctoral Scholarships

The scholarships were established to provide opportunities for students to pursue postgraduate research at Lincoln University.

The value of each award shall be \$21,000 per annum for up to three years plus tuition fees up to the amount incurred by N.Z. students. The scholarship requires students to be registered full-time for a Ph.D.

Applications close 1 November each year. Further information may be obtained from the website.

#### Lincoln University Graduate Scholarships

The scholarships were established to provide opportunities for students to pursue postgraduate study and research at Lincoln University.

The value of each award shall be \$6,000 per annum for up to three years plus tuition fees up to the amount incurred by N.Z. students. The scholarship requires students to be registered full-time for a Ph.D.

Applications close twice yearly on 1 May and 1 November. Further information may be obtained from the Scholarships website.

#### Lincoln University - William Machin Doctoral Scholarships for Excellence

The William Machin Memorial Research Fund will make scholarships available to Lincoln University students. The award is only available for NZ or Permanent Resident students. Value is currently \$20,000, closing date is November 1.

#### Lincoln University Takata Whenua Postgraduate Scholarship

The award is designed to encourage Maori of any iwi, gender or age to pursue postgraduate study at Lincoln University. Selection will be based on academic excellence and evidence of Maori identity and commitment to Kaupapa Maori and will be determined from applications received for the Lincoln University Doctoral and Graduate Scholarship. More information can be obtained from the Scholarships Office.

#### Lincoln University Summer Research Scholarships

A number of research scholarships are offered by divisions during the summer vacation for students in their final year of an undergraduate degree and intending to return to Lincoln University for postgraduate study, or honours, masters and PhD students. Scholarships are currently available within a range of disciplines. Scholarships are tenable for approximately 10 weeks and are supported by stipend payments and project running costs.

Applications close during September and October. Specific dates and further information should be sought from the respective division offering the scholarships.

**Most scholarship applications are available to download off the scholarships website [www.lincoln.ac.nz/scholar](http://www.lincoln.ac.nz/scholar)**



# Lincoln's Facilities and Services

## Minimum Service Standards

Lincoln University has developed a set of minimum standards for students at different levels of Postgraduate study. The standards include access to computing facilities, office or shared work space, the WEB, Library and supervision arrangements. These standards are provided to students upon registration.

## Computing

Lincoln University is dedicated to the regular use of technology in teaching and learning.

Every student receives a user code when they register with Lincoln, which they keep throughout their entire course of study. This gives students access to the student network, which means:

- Access to nearly 300 PC's running Windows XP and Office XP Professional, in student laboratories across the campus;
- Access to most labs is available 24 hours a day, seven days a week;
- 17 computers on campus with free internet access;
- The ability for a student to access their own files, email account, and the internet, wherever they connect to the network;
- The ability to print to black and white, and colour, laser printers on campus.
- Remote access to the University network through a terminal server.

When registered, Lincoln students are given a Computing Handbook which details the computer facilities and gives tips on using them.



*Most computer labs are accessible 24 hours a day, seven days a week.*





## Library

The library provides information to assist students in their studies and teaches skills that provide a basis for lifelong learning.

The library collection includes full text electronic access to an extensive range of electronic serials within the University's research and teaching areas. The print collection's strengths are within the university's research and teaching areas. Library staff work closely with lecturers to ensure the material, which supports teaching and research, is available to students. The Canterbury Tertiary Alliance has resulted in Lincoln students also having access to the Canterbury University Library resources.

The services the library provides are:

- An in-house Library research support meeting.
- On-going one-on-one (or small group) research database support.
- Information studies – classes are incorporated in a number of degree programmes. The library also runs a number of information skills based sessions.
- A library catalogue – provides access to library material from anywhere on or off campus via the internet.
- Library website – provides access to research databases, subject information guides, reference materials and much more ([www.lincoln.ac.nz/libr/](http://www.lincoln.ac.nz/libr/)).
- Document delivery service – enables postgraduate students and staff to request items to supplement material not held in the library.
- Restricted loan collection – enables access to high use items.
- Study rooms – There are 800 individual study places and five study rooms which can be booked for group work. There are also two 'time-out' areas where you can have a break from your studies in comfortable surroundings.

## Student Learning Centre

The Student Learning Centre's aim is to give students the opportunity to maximize their potential, enhance their general academic skills, and become successful independent learners. The Centre works with students at all stages – from first year undergraduates to postgraduates completing their theses. The centre runs a number of workshops specific to postgraduate students – these include:

- Thinking about a thesis?
- Writing a literature review
- Managing Information
- Endnote and referencing electronic sources
- Managing your time
- Becoming a productive writer

Students can also make appointments with trained tutors for help with academic writing and English language skills, or to discuss learning issues. Students can also use the Student Learning Centres independent study resources (<http://learn.lincoln.ac.nz/slc/>) free of charge.

## Orientation

During the first week of the first Semester at Lincoln there will be the opportunity for on-campus students to be involved in a University Orientation programme. This runs alongside the many social events organised by the Lincoln University Students' Association (LUSA).

The Orientation programme provides all new students with the opportunity to:

- Meet other new students and also current students.
- Be introduced to Lincoln's staff.
- Become familiar with the University's facilities and services.
- Take part in a campus tour – detailing where all the facilities are, such as the recreation centre, how to enrol for computing and library information sessions etc.

A specific and comprehensive orientation programme for postgraduate students is offered in the Business and Economic Studies, Applied Computing, Environmental Design and Management and Society and Culture areas with other parts of the campus providing orientation on a needs basis.

For off-campus students a specially designed orientation programme is offered.

### International Student Orientation

There is also a number of compulsory information sessions tailored especially for International Students. Information regarding the Orientation programme will be sent to you in your enrolment pack.

How will it benefit you?

- You will be advised on New Zealand and Lincoln University regulations which are applicable to international students.
- You will be introduced to the services and facilities available to International Students
- You will have the chance to meet staff and other students.
- You will have your questions answered about living in New Zealand and studying at Lincoln.

## Transport

Lincoln University is easily accessible whether its by car, cycle or bus. The University's environmental policy includes a strong commitment to energy conservation and encourages the use of bicycles, car pooling and public transport. Lincoln University has a Ride Share programme which students and staff can use.

The bus service runs at regular intervals from within Christchurch to the campus. The University has negotiated discount tickets for students who are frequent users. For more information call Businfo 03 366 8855.



## The Lincoln University Students' Association (LUSA)

The Lincoln University Students' Association (LUSA) is an independent student voice. LUSA belongs to the students - students run it, control it and fund it. All students have the opportunity to determine the direction, aims and policy of LUSA.

**The International Officers** organise events and promotes the interests, views and participation of International students. Email [international@lusa.org.nz](mailto:international@lusa.org.nz)

**The Postgraduate Officer** provides a voice for postgraduate students within the student association and works to facilitate better communication between postgraduate students, academia and LUSA. Email [pgofficer@lusa.org.nz](mailto:pgofficer@lusa.org.nz)

**The Education Coordinator** is employed by LUSA to act as an advocate for student issues ranging from fee disputes to organising a thesis suspension. Email [education@lusa.org.nz](mailto:education@lusa.org.nz)

## Societies and clubs

A wide range of societies and clubs on campus cater for the many and varied interests and hobbies of students and staff alike. The Lincoln University Students' Association (LUSA) administers club bank accounts and grants as well as provides a spacious clubroom for storage, meetings and practices.

There is a variety of clubs and societies.

### Sport:

Boardriders	Mountain Biking	Rowing
Indoor cricket	Rugby Union	Basketball
Tennis	Women's rugby	Canoe Polo
Netball	Snowboarding	Rugby League
Alpine Club	Target Shooting	Water Polo
Hunting	Dragon Boating	Frisbee
Soccer		

### General

Pacific Island student group	Photography
Malaysian Students Association	Christian Fellowship
Filipino Students Association	Muslim Society
Wine appreciation	Real Estate Society
Parks, Recreation and Tourism Society	
The Lincoln Environmental Organisation (LEO)	
International Club (events such as International Week)	

## Recreation and sports

The modern Recreation Centre provides a range of services and facilities to students.

### Sports activities:

- Squash
- Tennis
- Basketball
- Indoor Soccer
- Netball
- Table Tennis
- Volleyball
- Golf

### Fully equipped gym:

- Fitness classes – including yoga, pilates, STEP and hip hop
- Circuit training (including boxing circuit)
- Weight programmes
- Health appraisals
- Personal training sessions

### Organised trips:

- Skiing
- Sky-diving
- Rock climbing
- Plus more!
- White-water rafting
- Scuba diving
- Surfing

### On-campus Activities:

- Indoor sports leagues
- First-aid and revalidations
- Pottery workshop
- Rowing Challenges
- Tai chi and kung fu
- Plus more!

## The campus eateries

Lincoln University has made a commitment to providing a wide range of enjoyable and healthy food options on campus.

### Central Dining Hall

- Serves lunch: 11.00am to 2.00pm weekdays
- Serving everything from designer sandwiches to fish and chips to international cuisine to roast dinners to stuffed potatoes

### Mrs O's Café and Bar

- Open: 9.00am to 9.00pm weekdays
- Relax with a coffee, sit in front of the fire on a winter's day, or relax on the lawn in summer

### Food For Thought

- Serving snacks and lunches between 10:00am and 3:00pm weekdays.



## Other on-campus facilities

### Bookshop

Open 8.30am-4.30pm

Sells everything from textbooks to birthday cards

### ASB Bank

Open 9.00am-4.30pm

There is a full service bank on campus with a 24-hour ATM

### BTI Travel Agency

Open 9:30am-4.00pm

## Advice and support

There are trained staff on campus prepared to provide confidential support to students whatever the problem or concern:

### Budget Advice

- Providing assistance to students with financial concerns.
- Students are offered advice and given tools to better plan and manage their finances.

### Counselling

- Counsellors are available for students needing help with personal, family or relationship issues.
- Available on a one-to-one basis or in a small group.

## Student Health and Support Centre

- The Student Health and Support Centre on campus has a doctor and nurses on duty every weekday, 8:30am to 4:30pm.
- As well as general health problems students can use the Health Service for treatments of sport injuries, family planning, skin diseases, sexually transmitted diseases, accidents and injuries, drug and alcohol advice, travel vaccinations, and health examinations.
- The Health Centre also provides education about health issues.
- The costs of these medical services are subsidised by the University.





## Early Childhood Education Centre

- There are two Early Childhood Education Centres on campus. They cater for students, staff and other organisations in the Lincoln area.
- Lincoln University Early Childhood Centre, The Crescent, Ph. 03 325 2870.
- Lincoln Childcare centre, Ellesmere Junction Rd, Ph. 03 325 2287.

## Māori support contacts

- The Centre for Māori and Indigenous Planning and Development acknowledges that Māori self-determination needs to be planned and purposeful. It is grounded in a critical understanding of Mātauranga Māori, whilst acknowledging the evolving face of contemporary Māori society.
- The Centre also acknowledges the place of Māori in the global context of indigenous people and is committed to fostering dialogue between Māori and other indigenous groups.
- If you would like to talk to a Māori Liaison staff member please call 0800 10 60 10 and ask for the Liaison team.

## International Student Advisor

The 'Support' branch of Student Health and Support includes an International Student Advisor. Lincoln University recognises that living and studying in an unfamiliar environment can give rise to unforeseen challenges. The International Student Advisor can advocate on your behalf where appropriate or may advise you on where to best access assistance.

## The Employment and Industry Liaison Unit

The unit provides a link between students seeking graduate employment and employers seeking staff with Lincoln qualifications.

An Employment advisor is situated on campus to provide:

- A careers advisory service for current students and recent graduates.
- Graduate recruitment programmes and employer visits to the campus.
- Close contact with the graduate job market.
- Employment workshops and assistance with developing their CV and interview technique.
- An annual Employment Expo on campus.



## International Student Centre

The International Student Centre is incorporated into student services. The Centre's functions include:

- Promotion, administration and the provision of support for the university's international activities;
- A resource base for both students and staff who are studying or working internationally;
- Providing administrative support related to admission and academic programmes;
- On campus NZIS services for international students on an existing New Zealand student visa;
- Ensuring the unique needs of international students are catered for when first arriving at Lincoln University.

## Code of Practice for the Pastoral Care of International Students

Lincoln University has agreed to observe and be bound by the Code of Practice for the Pastoral Care of International Students published by the Minister of Education. Copies of the Code are available on request from this institution or from the New Zealand Ministry of Education website at <http://www.minedu.govt.nz/goto/international>.

### Immigration

Full details of visa and permit requirements, advice on rights to employment in New Zealand while studying, and reporting requirements are available through the New Zealand Immigration Service, and can be viewed on their website at <http://www.immigration.govt.nz>.

### Eligibility for health services

Most international students are not entitled to publicly funded health services while in New Zealand. If you receive medical treatment during your visit, you may be liable for the full costs of that treatment. Full details on entitlements to publicly-funded health services are available through the Ministry of Health, and can be viewed on their website at <http://www.moh.govt.nz>.

### Accident insurance

The Accident Compensation Corporation provides accident insurance for all New Zealand citizens, residents and temporary visitors to New Zealand, but you may still be liable for all other medical and related costs. Further information can be viewed on the ACC website at <http://www.acc.co.nz>.

### Medical and travel insurance

International students must have appropriate and current medical and travel insurance while studying in New Zealand.



## Disclaimer

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