



AREAS OF RESEARCH AT MASSEY

AREAS OF RESEARCH AT MASSEY UNIVERSITY

This guide is designed to assist prospective doctoral students in matching their research interests with those of supervisors across the university. You will see that the guide is divided into five sections (Business, Creative Arts, Health, Humanities & Social Sciences and Sciences). Within each section, there are several academic units (commonly referred to as schools or institutes), representing clusters of related research topics, and each unit has an academic contact who has responsibility for postgraduate students. Larger institutes may have multiple research topic areas with their own academic contact. Academic contacts can give advice about doctoral study and supervisory expertise within their units.

We recommend prospective students take the following steps:

- Review the PhD [entry criteria](#) to check if you meet admission requirements
- Visit the Colleges (or Massey Business School) webpages through hyperlinks in this guide
- Identify the academic unit and research area that most closely align with your interests
- Research the academic unit webpages, particularly the staff profiles to find out more about research publications and supervision. This will also give you an idea about the research other doctoral candidates are doing under the staff member's supervision.
- Carefully craft an email to a potential supervisor (avoid generic emails to a number of staff) and tell him/her
 - your background (qualifications, research experience, etc.)
 - your research interests
 - how your studies will be funded (e.g., personal funds, scholarship)
 - when you would like to enrol
- Read the [requirements for the application](#) process and [apply online](#) .

MASSEY BUSINESS SCHOOL

School of Accountancy

Contact: Assoc Prof Lin Mei Tan

Accounting education
Auditing assurance/auditing
Financial reporting and governance
Management accounting and performance
Public sector financial reporting and assurance

School of Aviation

Contact: Assoc Prof Andrew Gilbey

Airline business models and strategies
Air transport policy
Application of sustainable energy in aviation
Aviation and tourism demand forecasting
Aviation Human Factors
Aviation performance measurement
Aviation strategic management
Decision-making (in general aviation flying)
Development of low-cost flight simulators
Development of low-cost UAVs
Efficiency and productivity analysis
Modernising the features of flight training simulators
Safety Management in Aviation
Transportation economics

School of Communications, Journalism, & Marketing

Contact: Prof Stephen Croucher

Marketing
Retail Management and Marketing
Analytics
Organization Communication
Intercultural Communication
Journalism

School of Economics & Finance

Contact: Prof David Tripe/Assoc Prof Sasha Molchanov

Economics

Agricultural Economics and Policies
Applied Microeconomic and Macroeconomic Analysis
Economic Growth, International & Development Economics
Environmental and Ecological Economics

Finance

Asset Pricing, mutual funds and market microstructure
Banking and international finance
Corporate governance
Financial literacy and capability

Property

Real estate development and management
Real estate finance and investment

School of Management

Contact: Prof Tim Bentley

Business information systems/Data analytics
Business sustainability/Corporate Social Responsibility
Critical management studies
Employment relations
Entrepreneurship
Human Resource Management
International Business
Maori business
Occupational health and wellbeing
Strategic management

COLLEGE OF CREATIVE ARTS

School of Arts

Contact: Prof Heather Galbraith

Art and Design Publishing
Art and Design Writing (including criticism, analysis, parallel texts, creative writing, histories etc.)
Art in Public Space
Community Art
Fine Arts
Māori Visual Arts
Māori Visual Culture
Photography
The Curatorial/Exhibition Making
Visual and Material Culture

School of Design

Contact: Prof Vicki Karaminas

Art and Design Pedagogies
Design for Sustainability
Design History and Theory
Exhibition Design
Fan and Subculture Studies
Fashion and the Body, Fashion and Sexuality, Fashion and Representations, Fashion and Art
Fashion Design
Fashion Installation
Industrial Design
Interaction design
Interactive Media
Materialism
Political advertising, marketing, political leadership, election campaigning and visual research
Spatial/interior and architectural design and theory
Textile Design
User experience
Visual Communication (including Illustration, narrative/storytelling, graphic design, digital media, print design, typography, information design)
Visual and Material Culture

School of Music & Creative Media

Contact: Assoc Prof Andre Koti

Ethnomusicology
Experimental Sound Practices
Music performance and composition
Music Technologies
Popular Music Studies

COLLEGE OF HEALTH

Centre for Public Health Research

Contact: Prof Jeroen Douwes

Allergies and Asthma
Cancer
Environmental health
Epidemiology
Health surveillance
Maori Health & Development
Neurodegenerative diseases
Non-Communicable Diseases
Occupational Health
Pacific Health
Public Health

Research Centre for Maori Health & Development

Contact: Prof Chris Cunningham

Health & Development:
Maori health and development
Pacific health

School of Health Sciences

Contact: Assoc Prof Rachel Page

Environmental Health
Gut function
Health Development and Policy
Health Promotion
Health Research
Health Sciences
Metabolic Health
Occupational Health and Safety
Physiology
Population Health
Public Health
Rehabilitation studies

School of Nursing

Contact: Prof Annette Huntington

Ageing and aged care
Critical care nursing and patient experience
Nursing
Primary health care and rural service delivery including
mental health and long term conditions
Workforce development especially through the role of
Nurse Practitioner

School of Social Work

Contact: Assoc Prof Keiran O'Donoghue

Diverse populations and the impact of social problems
Social policy
Social work
Social work practices
The social work profession

Sleep/Wake Research Centre

Contact: Prof Philippa Gander/ Assoc Prof Leigh Signal

Chronobiology
Healthy sleep across the lifespan
Fatigue & shift work management
Role of sleep and circadian disruption in obesity, type 2
diabetes, cancer, and cardiovascular disease
Sleep and mental health
Sleep in aging and dementia

Social & Health Outcomes Research and Evaluation & Whariki Research Centre

Contact: Prof Sally Casswell/Prof Helen Moewakabarnes

Drug Discovery and Development
Drugs and Human Health
Health Administration
Health Care
Health Development and Policy
Health Education
Health Informatics
Health Information Management
Health Promotion
Health Research
Indigenous Health and development
Māori and Pacific Health & Development
Population Health
Primary Health Care
Public Health

Sports, Exercise and Nutrition

Contact: Assoc Prof Andrew Foksett

Bioactives
Dietetics and Clinical Nutrition
Exercise Prescription
High Performance Sport
Human Nutrition
Human Physiology
Nutrition and Physical activity
Physical education
Public Health Nutrition
Sport Biomechanics
Sport Coaching
Sport Management

COLLEGE OF HUMANITIES AND SOCIAL SCIENCES

Centre of Defence and Security Studies

Contact: Dr Wil Hoverd

Border and Biosecurity
Defence & Security studies
Intelligence Studies
International Security
Terrorism

Institute of Education

Contact: Prof Howard Lee

Early Childhood Education
Education & Teaching (Adult Education)
Education (assessment)
Education & Teaching (Early childhood)
Education leadership
Education (policy)
Educational Psychology
E-Learning and Digital Technologies
Inclusive Education
Mathematics Education
Specialist Teaching
Speech-Language Therapy
Teaching & Learning
TESOL

School of English & Media Studies

Contact: Assoc Prof Bryan Walpert

Academic Writing & Composition Studies
Communication Studies
Creative Activism
Cultural Studies
Language and Literature
English Literature: 16th-21st century, Aotearoa New Zealand,
Pacific, Shakespeare, Popular, Comparative
Expressive Arts
Media and Communication & Media Production
Media Production
New Media Studies
Creative Writing: Poetry, Fiction, Non-Fiction
Public and Professional Writing
Screen and Media Studies
Scriptwriting
Theatre Studies

School of Humanities

Contact: Dr Geoff Watson

Applied Linguistics
History
Linguistics
Philosophy

School of People, Environment & Planning

Contact: Assoc Prof Beth Greener/Dr Trudie Cain

Anthropology
Aotearoa/New Zealand Studies
Comparative Politics
Development Studies
Economic Sociology
Environmental Sociology
Geographical Information Systems
Historical Sociology
Human Geography
International Development
International Relations
Museum Studies
Planning History
Political Sociology
Political Theory
Politics
Public Policy
Resource & Environmental Planning
Rural Sociology
Sustainable Development
Transport planning
Urban Planning

School of Psychology

Contact: Dr Natasha Tassell-Matamua

Aging and Retirement
Clinical Psychology
Cognition
Disaster & Emergency Management
Health Psychology
Indigenous Psychology
Industrial/Organisational Psychology
Mental health and Well-being
Poverty and Inequality
Psychotherapy

School of Māori Art, Knowledge & Education (Te Putahi-a-Toi)

Contact: Dr Marg Forster

Māori Education
Māori Health
Māori and Indigenous Knowledge of the Environment
Māori and Indigenous Leadership
Māori and Indigenous Studies

COLLEGE OF SCIENCES

Institute of Fundamental Sciences

Contact: Prof Kathryn Stowell/Assoc Prof Paul Plieger

Biochemistry and Biomedical Science
Microbiology and Biotechnology
Chemistry and Biophysics
Genetics, Genomics and Evolution
Molecular Biology
Physics and Mathematical Physics
Pure and Applied Mathematics
Statistics and Bioinformatics

Institute of Natural and Mathematical Sciences

Contact: Prof Dianne Brunton/Assoc Prof Evelyn Sattlegger

Artificial Intelligence and Big Data Analytics
Biochemistry
Biological Sciences
Cell Biology and Genetics
Chemistry
Computer Science and Computer Simulation
Computer Vision and Parallel Computing
Data Science
Ecology and Conservation, Wildlife Ecology & Animal Behaviour
Evolution
Information Technology
Marine Biology
Mathematical Biology and Modelling
Molecular and MicroBiology
Physics
Pure and Applied Mathematics, Industrial Mathematics
Quantitative Biology
Statistics and Bioinformatics

Massey Institute of Food Science & Technology

Contact: Prof Steve Flint/Dr Jon Palmer

Food Bioscience
Food Material Science
Food Microbiology
Food Processing and Engineering
Food Structure
Food Technology
Human Nutrition
Postharvest Technology

NZ Inst. for Advanced Studies (NZIAS)

Contact: Assoc Prof Evelyn Sattlegger

Computational biology and Evolution, Game theory
Computational Chemistry
Ecological Statistics
Mathematical Biology and Modelling
Molecular epidemiology
Pure Mathematics
Theoretical Physics

School of Agriculture & Environment

Agriculture & Horticulture-Contact: Assoc Prof Peter Tozer

Agribusiness
Agricommerce
Agricultural Innovation & Extension
Agronomy
Ecological Restoration
Environment and Society
Environmental Studies
Farm Forestry
Farm Management
Farmer Learning
Food and Resource Economics
Horticulture/ Horticultural Science
International Rural Development
Molecular Pathology
Molecular Plant-Microbe Interaction
Natural Resources Management
Pasture Science
Pest & Weed Control
Plant Breeding & Protection
Precision Agriculture
Seed technology & Conservation
Sustainable Agriculture

Animal Sciences

Contact: Prof Kevin Stafford/Prof Dave Thomas

Animal Behaviour
Companion Animal Science
Equine Science
Livestock Science

Ecology & Wildlife-Contact: Dr Masha Minor

Biodiversity & Biogeography
Conservation Biology
Conservation Management
Entomology
Evolutionary Ecology
Landscape Ecology
Ornithology and Wildlife Science
Species Interactions

COLLEGE OF SCIENCES

Earth & Environmental Sciences-Contact: Dr Diane Pearson

Climate Change Policy
Environmental Change
Environmental Foot printing
Environmental Life-Cycle Management
Environmental System Analysis
Experimental Fluid Dynamics
Geochemistry
Geomorphology
Physical Geography
Quaternary Geology
Remote Sensing
Soil Characterization & Land Use
Stratigraphy & Sedimentology
Sustainability Sciences
Volcanology

School of Engineering & Advanced Technology (SEAT)

Contact: Dr Khalid Arif

Mechatronics, Robotics and Automation

Additive manufacturing
Agricultural automation
Biocomposite materials
Bioinstrumentation and biosensors
Intelligent and autonomous systems
Internet of things (IOT)
Machine learning and AI
Machine vision
Mobile robotics
Sensors and biosensors
Smart textiles
Soft robotics
3D/4D printing

Electronics, Information & Communication Systems

Engineering (EICSE) Acoustic/Ultrasonic imaging

Advanced sensor technology
Communication systems
Embedded systems design
5G and Device to Device (D2D) communication
Image and signal processing
Indoor localization
Machine vision
Micro-electronics, VLSI and integrated circuits
Non-Destructive Testing (NDT) using ultrasonics
Power Electronics
Remote Sensing and Internet of Things (IoT)
Telecommunications network modelling and design
3D computer vision
Visible Light Communication (VLC)
Wireless Network

Sustainable Processing

Chemical and Bioprocess Engineering
Chewing studies
Collagen structure
Crystallisation
Growing algae
Minerals
Modelling of food kinetic processes
Particle technology
Refrigeration
Renewable energy systems
Smoking of food
Spray drying operations
Stickiness of powders (mainly food related)
Waste water treatment

Industrial Innovation and Management

Collaborative product development
Humanitarian Engineering
Products development and innovation management
Quality management
Six sigma, and Quality systems
Supply chain and logistics

Computer Science / IT

Health informatics
Human-computer interaction and socio-technical design
Scientific computing
Smart environments for home and industry
Software engineering
Technology enhanced learning

Built Environment

Construction management
Industrial and commercial building services
Insurance rebuild costs
Local authorities and regulatory bodies
Productivity and lighting
Project management consultancy
Property development or property management
Sustainable, and healthy buildings

School of Veterinary Science

Contact: Prof Dave Thomas/Assoc Prof Wendi Roe

Animal Health and Management
Animal Nutrition
Animal welfare
Biomechanics
Companion Animal
Dairy cattle , Deer, Sheep Research
Epidemiology
Equine Research
Farm animal production

