

postgraduate

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UNIVERSITY OF
TECHNOLOGY

Postgraduate programs in
Civil Engineering



Swinburne University of Technology

www.swinburne.edu.au/postgrad

Swinburne's suite of postgraduate programs in civil engineering aim to prepare graduates for the design, procurement, construction and management of civil infrastructure projects and assets. This is achieved by providing a structured study of advanced design and analysis techniques in the fields of water, structures, geotechnical, sustainability and maritime engineering together with asset and engineering management. The structure of the program provides breadth with the opportunity to specialise in particular discipline areas and to undertake some focused research which is applied and relevant to the needs of industry.

Civil Engineering

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Special offer

Master of Technology (Civil) and Master of Technology Management (Construction Management)

Students can now undertake the Master of Technology (Civil) and the Master of Technology Management (Construction Management), resulting in a combined duration of two years.

Students who successfully complete the Master of Technology (Civil) will receive six months of exemptions when they enrol in the Master of Technology Management (Construction Management) and receive two master degrees in two years!

Civil Engineering

Graduate Certificate of Engineering (Civil)

Master of Technology (Civil)

Master of Engineering (Civil)

Master of Engineering (Civil) (Honours)

Program overview

These programs are designed to develop:

- ▶ advanced design and analysis skills associated with civil infrastructure
- ▶ an advanced understanding of Australian civil engineering practice
- ▶ an understanding of the codes of practice associated with civil infrastructure design
- ▶ understanding of the issues and challenges associated with the procurement and asset management of infrastructure projects in the 21st century
- ▶ an understanding of sustainability issues and environmental impacts
- ▶ an understanding of financial, legal, project management and risk considerations associated with project procurement and the business of engineering
- ▶ report writing, communication and presentation skills
- ▶ research and investigation skills

Career opportunities

These programs will provide graduates with an opportunity to gain advanced theoretical and practical knowledge of the design, procurement and asset management of civil infrastructure projects. The programs will also assist in up-skilling local and international civil engineering graduates in state-of-the-art Australian professional engineering. Graduates may obtain employment as civil engineers, design engineers, construction managers, project engineers/managers, geotechnical engineers, water engineers and asset management engineers in a range of industries including consulting engineering, construction, research organisations, private sector, local and other government authorities.

Location

Hawthorn campus. Some elective units are offered through on-campus study mode or via distance education.

Program length

Graduate Certificate of Engineering (Civil)

One semester full-time or one year part-time

Master of Technology (Civil)

One year full-time or two years part-time

Master of Engineering (Civil)

One and a half years full-time or three years part-time.

Master of Engineering (Civil) (Honours)

Two years full-time or four years part-time

Students may commence their studies in either first or second semester. Students in employment are encouraged to study part-time. Students may vary their study load to accommodate changing employment and personal commitments.

Please note: International applicants wishing to study on-campus should be aware that due to visa requirements a full-time study load (four units) must be maintained.

Admission requirements

Entry into Swinburne's Graduate Certificate of Engineering (Civil) program requires either:

- ▶ a Bachelor of Engineering (Civil) degree (or equivalent)
- ▶ qualifications and experience that are of an equivalent standard to the nominated program

Entry into Swinburne's master programs in civil engineering requires one of:

- ▶ a Bachelor of Engineering (Civil) degree (or equivalent) and successful completion of the graduate certificate units
- ▶ a Bachelor of Engineering (Civil) degree (or equivalent) with either honours or at least two years relevant industry experience
- ▶ qualifications and experience that are of an equivalent standard to the nominated program. The pathway for such students would be through satisfactory completion of the graduate certificate units before converting into the master program

Advanced standing

Applications for advanced standing will be considered on their individual merit and must be submitted and resolved prior to first enrolment. University policies and restrictions apply.

Program structure

All units of study are valued at 12.5 credit points except for HES7601 Major Research Project which is valued at 50 credit points.

Graduate Certificate of Engineering (Civil)

In order to gain the Graduate Certificate of Engineering (Civil) students must satisfactorily complete four units of study to the value of 50 credit points.

A minimum of two of these must be discipline-specific units.

Master of Technology (Civil)

In order to gain the Master of Technology (Civil) students must satisfactorily complete eight units of study to the value of 100 credit points.

A minimum of five of these must be discipline-specific units.

Master of Engineering (Civil)

In order to gain the Master of Engineering (Civil) students must complete 12 units of study to the value of 150 credit points. In addition to the requirements of the Master of Technology (Civil), students must undertake HIT9010 Research Methods (or HES7605 Research Design and Methodology by distance education), and HES6198 Research Paper, together with an additional two units of study (with at least one being discipline specific).

Master of Engineering (Civil) (Honours)

In order to gain the Master of Engineering (Civil) (Honours) students must complete units of study to the value of 200 credit points. In addition to the 150 points associated with the requirements of the Master of Engineering (Civil), to be eligible for honours students must complete an additional 50 credit points and either:

- ▶ attain an average grade of 70% over the final 100 credit points of the program or
- ▶ attain an average grade of 75% over the final 50 credit points of the program (ie. the 50 credit point major research project)

Units of study

Discipline specific units

HES6194	Geotechnical Design
HES6195	Building Design
HES6196	Integrated Water Design
HES6197	Principles of Sustainability
HES6178	Sustainable Buildings
HES6CME	Coastal and Maritime Engineering
HES6PHE	Port and Harbour Engineering
HES6175	Project Costing
HES6192	Infrastructure Deterioration Modelling
HES6193	Infrastructure Asset Management

Recommended elective units

HES6793	Construction Law
HES6690	Engineering Project Control
HES6791	Project Management
HES6176	Environmental Sustainability in Construction
HES6177	International Construction*
HES6795	Construction Site Operations
HBSG500	New Venture Development and Management*
HES6720	Risk Perception and Analysis*
HIR506	Technology Management
HES6199	Energy for the Future

Research specific units

HIT9010	Research Methods
HES7605	Research Design and Methodology*
HES6198	Research Paper
HES7601	Major Research Project

* Delivered via distance education only

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Unit of study outlines

Geotechnical Design

This unit introduces various specialised geotechnical engineering concepts and design methodologies including: site characterisation and in-situ testing, foundation engineering, excavations and slope stability, tunnelling, field instrumentation, ground improvement, geosynthetics, dredging and land reclamation. A number of industry-based case study examples will be introduced to complement the lectures.

Building Design

This unit provides an overview of the structural design of a multi-storey building including conceptual and detailed design techniques. A number of industry-based case study examples will be introduced to complement the lectures. Topics include: conceptual design and approximate methods, structural loadings (dead, live, fire, wind and earthquake), structural analysis and modelling using software programs, design of lateral force resisting systems, design of columns, composite beams and slabs for strength and serviceability.

Integrated Water Design

This unit provides the fundamental knowledge of the objectives and management strategies adopted in the management of integrated urban water systems. The unit will focus on the management of issues related to both water quality and quantity within urban areas. Students will be given the opportunity to develop skills in the application of computer models in the assessment of urban water management strategies, and use these models to develop a better understanding of the application of best management practice in integrated urban water systems.

Principles of Sustainability

A very new and thoroughgoing approach to sustainability is introduced in this unit of study. It is based on the idea that by recognising that we act in the world through frameworks of thinking and of organising society (ie. institutions), leads to a circumspect and responsible approach to life. The institutional bases of our expectations of the world are investigated along with the tools used to respond and act. Examples from science and engineering as well as extensive use of mini-excursions are used to illustrate these points. Later in the unit, specific socio-economic tools such as the Precautionary Principle and Triple Bottom Line accounting are introduced and analysed. Their role as change agents in the process of moving to sustainable institutions is highlighted.

Sustainable Buildings

This unit provides a multi-disciplinary overview of the design of sustainable buildings and considers the design from an architectural, services engineering, façade engineering, environmental engineering and structural engineering, tenants and owners perspective. Topics include: ecological sustainable design, life cycle analysis, planning for sustainable buildings and cities, regulatory environment, barriers to green buildings, green building rating tools, material selection, embodied energy, operating energy, indoor environmental quality (noise, light and air), façade systems, ventilation systems, transportation, water treatment systems, water efficiency, building economics, and staff productivity. A number of industry-based case study examples will be introduced to complement the lectures.

Coastal and Maritime Engineering

Coastal and maritime engineering is a discipline of civil engineering, particularly relevant for Australia whose majority of infrastructure is concentrated in coastal areas. The unit addresses a range of topics including: purpose and scope of coastal and maritime engineering, wave theory, statistical description of waves, wave modelling, SWAN (Simulating WAves Nearshore) model, wave impacts on coastal and engineering structures, sediment transport, and near-shore and deep-water engineering processes and applications.

Port and Harbour Engineering

Port and harbour engineering is a discipline of civil engineering, particularly relevant for Australia with its developed network of sea ports. Civil engineering applications at ports are approached in a very different manner compared to those onshore and require special knowledge. This unit provides a multi-disciplinary overview of problems and issues relevant for port and harbour engineering. A number of industry-based applications and case study examples will be introduced to complement the lectures. Topics include: structural design of marine infrastructure, dredging, hydrographic surveying, port design, corrosion protection and civil works at ports.

Project Costing

The study modules for this unit introduce students to the key indicators for a general understanding of project costing and project controls for civil engineering projects. It presents an overview of the main challenges and opportunities associated with project execution, risk, economics, estimating, tendering, planning and scheduling for project success. Factors that need to be familiar to and understood by project cost engineers are also outlined.

Infrastructure Deterioration Modelling

This unit provides an overview of the deterioration aspects of civil infrastructure such as road pavements, drainage and sewer systems, water supply systems, bridges and buildings. Pavements: pavement material degradation, performance assessment, condition surveys and technologies/equipment used in condition data collection. Drainage, sewer and water supply systems: types, problems and deterioration mechanisms, inspection and data gathering techniques, condition monitoring technologies, failure modes (structural and physical models) and rehabilitation methods. Bridge structures: types and causes of deterioration in timber, concrete and steel bridges, inspection methods, condition assessment of individual elements and overall structural rating techniques. Masonry buildings: damage caused by brick growth, foundation movement, mortar deterioration and detailing and repair methods.

Infrastructure Asset Management

This unit focuses on the different phases of managing the life cycle of civil infrastructure systems. This includes planning, programming and budgeting, design, construction, operations, maintenance, repair and renovation, and disposal. Students will be given the opportunity to develop an understanding of the many factors that need to be considered in the management of civil infrastructure. Students will undertake a group project where each member of the group will be responsible for investigating and reporting (with case studies) on one of the management stages of the life cycle of a civil infrastructure system.

Recommended elective units

Construction Law

This unit covers legal relationships including; agency, partnerships, firms, companies and unincorporated associations. It covers professional responsibility and relationships including the client, architect, engineer, contractor and sub-contractor. It also looks at insurance including loss, non-completion of contract, injury, death and weather. Finally it addresses the role of the lawyer in drawing up contracts, including bankruptcy of contractor/client; tendering procedure; negotiating within an existing contract; dispute avoidance and resolution; and commercial law.

Construction Site Operations

This unit covers the assessment and control of the impact of building construction on the environment; methods of dealing with objections from the public to proposed works; occupational health and safety; managing construction site documentation and communications, including working drawings; specification; contract administration and construction management documentation; site meetings; negotiation strategies and tactics; and report writing.

Engineering Project Control

This unit covers the nature of the construction industry; project phases; identification; planning; feasibility phase; preliminary engineering and detailed design phase; contracts and procurement phase; construction and commissioning phase; control of project costs; project programming and scheduling; project quality control; and project occupational health and safety.

Environmental Sustainability in Construction

This unit covers a number of concepts including:

- terminology: international developments, national developments
- sustainability issues: climate change, energy, resources and materials, indoor environment, quality of building services, outdoor environment
- implementation: strategies, design issues, tools and indicators

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International Construction

This unit is an introduction to international construction and covers the global construction market; construction industries in developing countries; national and cultural differences; privately-financed infrastructure projects; financial risk management; international joint ventures; technology transfer and skills for international construction professionals; and construction in the knowledge-based economy.

New Venture Development and Management

This unit covers entrepreneurial concepts; venture development history; business evaluation; strategy development; resource selection; business licenses; partners and associates; finance, taxation and investors; start-up issues; building of new markets; handling growth; and equity and investors.

Project Management

This unit covers management principles, total quality management, management styles, leadership, leadership traits and behaviour, organisational life cycle, coordinating design and site functions, organising capital inputs, and work methods.

Risk Perception and Analysis

This unit aims to provide an understanding of the philosophy and terminology concerning the idea of risk, and to provide an understanding of the nature of human perception and experience of risk. Students will also learn to recognise situations where potential loss occurs and how humans respond to these situations, and to understand the general principles and practical techniques of risk identification, assessment, analysis and control.

HES6199 Energy for the Future

On successful completion of this unit the student should be able to define and use basic energy concepts, dimensions and associated terms; conduct a basic energy audit; critically assess basic economic, social and environmental dimensions of energy use on the scale expected by today's industrial societies; propose rudimentary but practical changes to current usage, based on recognition of the way human energy use is socially constructed; and recognise the extent of personal energy expectations and how to change them. Students will use extensive every day examples, excursions and modelling exercises as part of their learning.

HIR506 Technology Management

This unit provides an understanding of effective project management principles and tools, and issues related to product life cycles.

Research Units

Research Design and Methodology

This unit includes literature survey, investigation design, data gathering and analysis, and presentation of results in an oral and written form.

Major Research Project

Students work on an approved project under Swinburne staff supervision. External supervisors, where appropriate, may be appointed. The project involves the application of research techniques, including literature search and experimental investigation.

Key staff

Program Coordinator, Dr Monzur Imteaz, BEng, MEng(AIT), PhD (Saitama, Japan), MIEAust, CPEng

Monzur Imteaz is a senior lecturer of civil engineering at Swinburne. He has a Bachelor of Engineering degree in Civil Engineering from Bangladesh University of Engineering and Technology, a Master of Engineering degree in Water Engineering from the Asian Institute of Technology (Thailand) and a PhD in Environmental Engineering from Saitama University, Japan.

Monzur has more than 17 years of research, teaching and professional experiences in the field of hydrologic and hydraulic modelling, water quality modelling, urban drainage and pollution transport, waste water treatment modelling and ecological modelling. Monzur has completed his post-doctoral research at University of Queensland, Brisbane. He was involved with several projects on flood and drainage studies, water quality monitoring and modelling in Australia and abroad. He has worked on some projects in collaboration with the Danish Hydraulic Institute (DHI) in Denmark; gaining extensive expertise on DHI developed softwares on water and environment. Before joining Swinburne he has been involved with several local and state government positions in Queensland, New South Wales and Victoria.

Dr Kamiran Abdouka, PhD and MSc in Structural Eng, BSc Civil Eng

Kamiran Abdouka is a senior lecturer in the Faculty of Engineering and Industrial Sciences at Swinburne and is a registered building practitioner in the field of civil engineering in the state of Victoria. He has more than 10 years of design experience in steel, masonry, timber, concrete (both reinforced and post-tensioned) structures. He has a Bachelor of Science in Civil Engineering and a Master of Sciences in Structural Engineering from the University of Baghdad, Iraq and a PhD in Civil Engineering (Structures) from the University of Melbourne. His research interests include the performance of concrete buildings under earthquake loading and the monitoring and assessment of infrastructure deterioration such as buildings and bridges.

Dr A Arulrajah (Arul), BSc (Purdue University, USA), MEngSc (Malaya), PhD (Curtin), FIEAust, CPEng

Arul Arulrajah is a senior lecturer (civil engineering) at Swinburne and a fellow of the Institution of Engineers Australia and a chartered professional engineer. Arul obtained his BSc from Purdue University in the United States, MEngSc from the University of Malaya and PhD from Curtin University in Western Australia.

His current research interests include geotechnical engineering, ground improvement, dredging, land reclamation and sustainable materials. He has gained extensive experience in the project management, design and site implementation of civil engineering infrastructure projects in the Australasian region having worked with various consultants in Australia, Singapore and Malaysia over the last 15 years.

Assoc Prof Alexander V Babanin, BSc(Physics), MSc(Physical Oceanography, Moscow), PhD(Physical Oceanography, Russia)

Alex Babanin is a graduate of the M. V. Lomonosov Moscow State University and has extensive research and academic experience in coastal and maritime engineering and physical oceanography.

His research interests include experimental and theoretical aspects of fluid mechanics of atmospheric and marine boundary layers, wind-generated waves and related phenomena, turbulence. He is an elected member of the American Meteorological Society.

Barry G Cargill, MEngSc (UNSW), BCom(Melb), DipCivEng(SUT), MIE Aust CPEng, Assoc AIPM

Barry Cargill has had over 30 years experience in the design and construction management of projects both within Australia and overseas (UK, Czech Republic, India, Indonesia, Myanmar, New Zealand, and Pakistan). These projects have been undertaken in the area of infrastructure development (roads, motorways, railways, power stations, schools) and in multi-discipline industrial development projects (process, chemical plants, food and beverages).

He has also been involved in the development of quality management systems for engineering companies and contractors. He is currently the managing director of a specialist multi-discipline engineering design and construction management company in Melbourne, Australia.

Civil Engineering

Robert Evans, BEng(Hons), MEng(SUT), MBA, MIEAust, CPEng

Robert Evans is a lecturer of civil and geotechnical engineering at Swinburne University of Technology. He has a Bachelor of Engineering degree, a Graduate Diploma in Management and a Master of Engineering degree (by research) all from Swinburne University, as well as a Master of Business and Administration degree in Management from Deakin University.

Before entering the academic environment he worked for Vicroads and a local geotechnical consultant, Piper and Associates. He has research interests and expertise in the behaviour of expansive soils, road roughness, vertical moisture barriers, wavelength analysis of road roughness, and modelling the deterioration of pavements.

Assoc Prof Emad Gad, BEng(Hons)(Monash), PhD(Melb), FIEAust, CPEng

Emad Gad is an associate professor in civil engineering at Swinburne. Emad has a Bachelor of Engineering from Monash University and a PhD from Melbourne University. He has more than 10 years experience in teaching and research including positions at Melbourne University and CSIRO.

Emad's research interests include structural dynamics, modelling and steel structures. In addition to teaching and research he has also been involved in specialist consulting. He is a fellow of Engineers Australia and past chairman of the Structural Branch, Victoria Division. He is also a member of several industry professional bodies and committees including Standards Australia Committee on Structural Steel, Australian Steel Institute (ASI) Construction Committee (Victoria) and National Association of Steel-Framed Housing (NASH).

Dr Shirley Gato-Trinidad PhD (RMIT), MEng (AIT, Thailand), BSAE (Philippines)

Shirley is a lecturer in civil engineering at Swinburne University of Technology (Hawthorn Campus). Her research interests and experiences are urban water demand modelling including modelling of end uses of water, water supply and sewerage systems investigation and design, water resources modelling, drip irrigation system design and integrated area development.

Prior to joining Swinburne University of Technology, Shirley has worked in various government and consulting organisations as well as academic institutions in Australia, Thailand and Philippines. In Australia, she worked with Melbourne Water Corporation, RMIT University, Australian Water Technologies (AWT), the then Department of Natural Resources and Environment and the then HydroTechnology and its predecessors, where most of her research interests and experiences were developed extensively. She has also been involved in the development of catchment management and salinity plans and of the Melbourne water supply system's environmental management program.

Dr Rayya Hassan, BSc (Civil), MEng (SUT), PhD (SUT)

Dr Rayya Hassan is a senior lecturer in the Faculty of Engineering and Industrial Sciences at Swinburne. She holds a PhD in Civil Engineering and a Master of Engineering in Construction Management from SUT. She obtained her BSc in Civil Engineering from the Baghdad University, Iraq.

Her main research areas include pavement performance assessment and modelling with particular emphasis on the interaction between road surface roughness and heavy articulated vehicles and its effect on ride and driver comfort. Other research areas include using life cycle costing analysis in assessing the economic impacts of high productivity vehicles on road pavements and cost implications of incremental loads for pricing applications. Other research interests include investigating the effect of dynamic wheel loading on road profile characteristics and studying the effects of whole body vibrations on driver perception of ride and fatigue.

Barry Ireland, FIEAust, FASCE

Barry Ireland is a civil engineer with over 40 years construction project experience. He has been CEO of a construction contractor and an engineering consultant, a director of water, power and irrigation utilities and of the Melbourne City Link Authority. He is currently on the boards of the Southern and Eastern Integrated Transport Authority and Murray Irrigation Limited. He has managed projects in Australia, UK, Singapore and Hong Kong. In Indonesia he established, and was CEO of, the first Australian-Indonesian joint venture construction company.

As managing director of Snowy Mountains Engineering Corporation Limited, he was responsible for its projects in 40 countries.

Julia M Lamborn, BE(SIT), GradDipChemEng(SIT), MEng(SUT), FIEAust, CPEng

Julia Lamborn is the director industry liaison, Faculty of Engineering and Industrial Sciences and the program coordinator for civil engineering at Swinburne. She has been a lecturer at Swinburne for 17 years and prior to that was a design engineer at the SECV for eight years. She has a Bachelor of Civil Engineering, a Graduate Diploma of Chemical Engineering and a Master of Engineering, all from Swinburne University. She has research interests and expertise in landfills, waste management, environmental impact assessment, environmental engineering, cooling towers and engineering heritage.

Julia is a fellow of Engineers Australia and has been very active for over 25 years in the organisation, currently holding four national board positions and three state positions. Engineers Australia is the national professional body for engineers and represents over 80,000 members. She also has held various positions on State Government authorities and committees for over 23 years, including the Heritage Council and Planning Panels Victoria.

Assoc Prof Kerry J McManus, AM, RFD, BE(Qld), MEngSc(Qld), PhD(SUT), MASEE, FCIT, FIEAust, CPEng

Kerry McManus has had a wide experience in the academic field. He was involved in consulting and construction in Australia and North America before entering tertiary education. He is a former chairman of the Victoria Division of the Engineers Australia and a fellow of that institution.

He has had long service in the Army as a Reserve Officer in the Corps of Royal Australian Engineers and has the rank of Brigadier. He was appointed a member of the Order of Australia (AM) for his services to the army. He has written over 80 papers related to his research.

Laurence Pole, CPEng MIEAust

Laurence Pole is a sessional lecturer in cost engineering and project costing at Swinburne University of Technology. He has some 30 years experience in project engineering and costing in a wide variety of large-scale construction, mining infrastructure, manufacturing, and materials-handling projects in Australia and South-East Asia. He is a member of the Australian Cost Engineering Society (ACES) and a past member of the Association for Advancement of Cost Engineering (AACE). His background includes development, design, manufacture and on-site construction work entailing engineering disciplines in civil, mechanical, electrical, instrumentation and controls. His area of responsibility in major infrastructure projects has variously included the role of senior project engineer, contract engineer or project manager.

Charles Reichman, LLB (Monash), BJuris (Monash)

Charles Reichman is a Melbourne-based barrister and solicitor and mediator specialising in commercial law and construction law. He was admitted to practice in New South Wales (1979), Australian Capital Territory (1980) and Victoria (1980). During a varied career, Charles has served with several federal government departments, lectured in law at university level and researched and conducted many cases. His roles have ranged from export promotion to bankruptcy, taxation and various aspects of commercial law. He has acted for major multinational companies and developed and conducted in-house training and advised on statutory compliance for public and private sector clients. He has extensive litigation experience and has served as a member of the Veterans Review Board.

Charles has also taught commercial law and professional ethics at various universities including Latrobe, RMIT, Swinburne and VUT. Charles was a founding member of the Victorian chapter of the Australian Institute of Administrative Law and is active in the legal community.

Civil Engineering

Dr Xiaoming Wang, PhD

Dr Wang is a principal scientist of Urban Systems Program with CSIRO Sustainable Ecosystems. He is an expert in civil engineering, with strong multi-disciplinary knowledge and skills across a broad area, ranging from complex systems to material science. He is one of Australia's leading researchers in building, structural and infrastructural engineering, specialising in structural health monitoring, reliability/vulnerability assessment, risk analysis and management, and urban sustainability.

He has been extending his research into climate change, and has contributed to the Garnaut Climate Change Review on consideration of human settlement and infrastructure. He has also involved in other consultancy to State and Federal government, and has provided research advice to Australian Building Codes Board (ABCB) on the risks of Australian construction and design industries in China in relation to Australia-China Free Trade Agreement.

He is now leading research in urban and coastal infrastructure under the impacts of climate change in Sustainable Cities and Coasts Theme. In addition, he is an expert in spatial analysis and GIS-based assessment, with strong expertise in modelling and simulation.

Professor John Wilson, PhD, MSc, BE, FIEAust, CPEng

John Wilson is a professor of civil engineering at Swinburne. Prior to this appointment he was a senior academic at the University of Melbourne for some 14 years and a consulting engineer for over 10 years with the SECV and Arups in their London and Melbourne offices. He has a Bachelor of Engineering degree from Monash University, a Master of Science degree from University of California (Berkeley) and a PhD from University of Melbourne.

He has a research interest and expertise in structural systems, earthquake engineering, structural dynamics and sustainable structures and has consulted widely in these fields. He was the Victorian chairman of Engineers Australia in 2002, representing the professional interests of some 14,000 engineers, a member of the steering committee for the 2005 Victorian Infrastructure Report Card and the chairman of Standards Committee BD6/11 responsible for updating the earthquake loading standard.

General information

Facilities

As a Swinburne student you will automatically gain access to a range of facilities. These include a well-resourced library, computer laboratories, fitness and health facilities, personal and career counselling, housing assistance, and employment and financial advice.

Fees for local students

In 2009, tuition fees for Australian citizens and permanent residents are based on \$1890 per 12.5 credit point unit of study. In the event that a unit of study is derived from another program, the applicable fee will be that of the other program. All fees are reviewed each year and many increase with notice.

FEE-HELP is a government-funded loan that helps eligible fee-paying students pay their tuition fees. FEE-HELP is not available to New Zealand citizens and most holders of Australian permanent visas, however, it is available to Australian citizens and holders of a permanent humanitarian visa. For further information visit www.goingtouni.gov.au

Application procedure

Application forms for postgraduate study can be downloaded from www.swinburne.edu.au/postgrad

Closing dates

Semester 1 – Round one (timely applications) close early November. Round two (late applications) close mid January. Classes begin in late February/early March.

Round two (late applications) are subject to the availability of places.

Semester 2 – Applications close late June, with classes beginning in late July/early August.

Recognition of Prior Learning

Recognition of Prior Learning (RPL) allows students to be granted credit or partial credit towards a qualification in recognition of skills and knowledge gained through work experience, life experience and/or formal training.

International students

If you want to study at Swinburne but are not an Australian resident, telephone Swinburne International on +61 3 8676 7002 (worldwide) or 1800 897 973 (within Australia) or visit www.international.swinburne.edu.au

Further information

To submit an online enquiry visit:
www.swinburne.edu.au/postgrad

Telephone: 1300 ASK SWIN (1300 275 794)
Email: postgrad@swinburne.edu.au

ANY QUESTIONS?

www.swinburne.edu.au

1300 ASK SWIN (1300 275 794)

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Postgraduate Information Day

Swinburne Hawthorn campus.

October 2009

www.swinburne.edu.au/postgrad

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