VICTORIA UNIVERSITY OF **WELLINGTON**
TE HERENGA WAKA

He kura te tangata[1]

Te Kura Mātai Pūkaha, Pūrorohiko | School of Engineering and Computer Science

Sir Mark Dunajtschik Professor (Chair) of Mechatronics

Base Salary Range: NZ $155,171 to $191,738 per annum

Permanent, full-time position | 37.5 hours per week

Reporting to Tumuaki | Head of School

Location: Kelburn Campus

Are you a visionary leader in the field of Mechatronics? Do you have a passion for pushing the boundaries of technology and inspiring the next generation of engineers? We are seeking a dynamic and innovative Professor to join our Te Kura Mātai Pūkaha, Pūrorohiko - School of Engineering and Computer Science.

Te Kura Mātai Pūkaha, Pūrorohiko - School of Engineering and Computer Science is currently seeking to recruit a Ahorangi - Professor in Mechatronics with expertise world class teaching and research methods to develop and deliver Mechatronics Engineering in the context of New Zealand Industry.

This is a fantastic opportunity to be a key contributor, providing a high quality, exceptional and transformative educational experience to students in an innovative and high-tech learning environment. The successful candidate will lead, initiate, and develop a new Mechatronics Engineering programme at the University. The postholder will bring relevant teaching and research expertise and will be expected to contribute to multiple research and capacity strengthening projects across the School / Faculty and further building on collaborative links with Industry and government agencies.

Role description dated: 27 August 2024

Further information can be found at: https://www.wgtn.ac.nz/ecs

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[1] Translation from te reo Māori "People are valued"

Responsibilities

- Research: Lead groundbreaking research projects in the field of Mechatronics, focusing on areas such as robotics, automation, systems engineering, space engineering, medical technologies, and sensor technology.
- Teaching: Develop and deliver engaging undergraduate and graduate courses, inspiring students to become future leaders in the field.
- Mentorship: Provide guidance and mentorship to students, fostering their academic and professional growth.
- Collaboration: Collaborate with industry partners, government agencies, and other academic institutions to advance the field of Mechatronics.
- Service: Contribute to the department, college, and university through service activities and leadership roles.

Qualifications

- Ph.D. in Mechatronics or a closely related field.
- A strong record of research, publications, and grant acquisition.
- Excellent teaching skills and a passion for inspiring students.
- Experience in industry or academia, demonstrating a deep understanding of the field.
- Strong interpersonal and communication skills.

Benefits

- Competitive salary and benefits package.
- Opportunities for professional development and advancement.
- A supportive and collaborative work environment.
- The chance to make a significant impact on the future of Mechatronics.
- If you are a highly motivated and talented individual who is passionate about Mechatronics, we encourage you to apply. Join our team and help shape the future of technology.

Key Result Areas

The Key Result Areas of Leadership and Hautūtanga, Research, Learning and Teaching and External Engagement are the basis for the primary duties and responsibilities of the role. Areas of focus will be agreed annually with the Head of School in the Performance Development and Career Plan (PDCP) Process. Other duties may be required from time to time as directed by the Head of School.

Leadership and Hautūtanga[2]

Demonstrating leadership in the discipline and within the University community as evidenced by substantial contributions in the following areas:

- Role modelling through productive research and an active and sustained research agenda.
- Leading by example in all aspects of teaching practice.
- Commitment to the University's strategic goals and actively supporting the achievement of those goals through academic leadership (e.g. leading innovation in learning and teaching and research, successful strategies for boosting numbers of postgraduate students, successful strategies for maintaining or increasing student participation and learning, etc.).
- Commitment to ensuring high quality undergraduate and postgraduate teaching and supervision.
- Successful mentoring of colleagues, including advice on teaching practice, career development and research directions.
- Actively promoting the collegial development of the Programme, School, Faculty and University through respectful and solution-focused interactions with colleagues.
- Playing an active role in the academic development of the discipline within the School, Faculty and University (e.g. as Programme Director, at Faculty/Academic Board, by contributing to recruitment and selection, by participating in academic reviews, etc.).

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[2] Hautū means to lead or leader but the nature of the leadership is primarily based on the activities and actions of the person doing it

- Participating effectively in School, Faculty or University administrative or committee roles and in ways which capitalise on experience and seniority.
- Contributing positively to the University's Treaty of Waitangi and equity obligations and/or objectives.

Research

On-going research activity at a level appropriate to the career stage of a Ahorangi - Professor as evidenced by:

- Publishing in disciplinary-relevant internationally refereed journals (i.e. where the refereeing process is of international standing) and/or with academically reputable national and/or international presses.
- Multiple indicators of the impact and significance of research activities (e.g. positive citations, patents, keynote invitations, national and international prizes or awards related to research, prestigious research fellowships, success in gaining research funding, etc.).
- Where appropriate, encouraging, contributing to and producing research outputs in the form of substantial creative works (e.g. creative performance etc.).
- Where appropriate, leading or encouraging and contributing to research that provides cultural innovation or socio-economic benefits, nationally and internationally.
- Leading or participating in research teams that may include members from other disciplines and institutions and that address national or international priority areas.
- Where possible, incorporating Maori and Pasifika perspectives and interests into your research.
- Engaging constructively and productively on research interests with colleagues within and outside the University.
- Successfully attracting Masters and PhD students into the discipline, School or Faculty.
- Sustained success in attracting significant amounts of competitive national and/or international level funding for research activities in addition to internal funding.

Learning and Teaching

Commitment to learning and teaching as evidenced by:

- Academically rigorous teaching that stimulates students' learning in the discipline in general and in your specialist area. Particularly in the areas of Mechanical Engineering and Systems Engineering.
- Exercising leadership in curriculum development and learning, teaching and assessment practices that engage students in their learning and are focused on student achievement.
- Maintaining an excellent teaching reputation, as evidenced by peer and student feedback.
- Demonstrating good pedagogical practice regularly reflecting on teaching practice (through professional development initiatives such as seeking feedback and evaluation of your teaching practice, and reviewing and updating your teaching practice).
- Conducting learning and teaching in accordance with University policy, including assessment, course co-ordination and course materials.
- Regularly reviewing courses to ensure continuing relevance and incorporation of new research or designing new courses/programmes with incorporation of new research.
- Where possible, incorporating Maori and Pasifika perspectives in course content and teaching practice.
- Attracting and successfully supervising Masters and PhD students to completion.
- Familiarity with, and critical reflection upon, innovation in learning and teaching practice and technology and adoption of new technologies and other appropriate innovations in support of teaching excellence.
- Contributing to innovations in learning, teaching and assessment within the discipline and more widely across the University, including demonstrating digital fluency.

External Engagement

Commitment to engagement with the wider community as evidenced by:

- Actively engaging with industry, government, professions and diverse communities.
- Actively engaging with professional or disciplinary bodies and, where appropriate, contributing effectively to a role in your professional body or disciplinary community.
- Engaging in external activities that align to and support research.
- Facilitating experiential learning and other opportunities for students through successful partnerships, including with Māori or Pasifika organisations.
- Publicly contributing as an expert in the discipline.
- Representing the interests of the University in relevant disciplinary and non-disciplinary fora at national and international levels.

Ngā Uara - Our Values

- Kaitiakitanga—we have a duty as guardians to protect and nurture the environment and people entrusted to our care.
- Manaakitanga—we are welcoming and generous and operate in ways that enhance the mana of our staff and students.
- Whanaungatanga—we grow meaningful and long-lasting relationships that benefit our university communities and wider society.
- Akoranga—we value the experience that students and staff bring to the University and recognise that greater understanding grows out of shared learning.
- Whai mātauranga—we nurture intellectual curiosity that pushes the boundaries of knowledge and integrates diverse viewpoints to enhance the world around us.

Health and Safety/Emergency Management

- Accepts personal responsibility for own safety and wellbeing.
- Complies with Victoria's Health and Safety Policy.
- Demonstrates actions in an emergency situation that are specific to the workplace and promote safety.

Staff Conduct Policy

The person appointed to this role will be expected to behave in accordance with the "Standards of Conduct" and the overarching "Values" both of which are outlined in the University's *Staff Conduct Policy*.

Person Specification

	Criteria	Essential/ Desirable	Means of Assessment
Education & Qualifications	A completed PhD in a relevant field, or other relevant qualifications commensurate with the seniority of the role.	Essential	Certificates
Experience & Knowledge	A demonstrated significant and high-quality record of scholarly research including publication in leading refereed national and international journals and/or with leading academically reputable presses (or where appropriate, extensive relevant industry/professional experience).	Essential	Application (incl. multiple indicators) Interview Presentation References
	A demonstrated active research agenda.	Essential	
	Demonstrated evidence of academic leadership in teaching and research as judged by international standards (e.g., through developing teaching programmes, leading collaborative research projects, developing and leading innovative initiatives that encourage or enhance student learning, etc.).	Essential	
	Demonstrated extensive record of high quality and successful disciplinary tertiary teaching.	Essential	
	Demonstrated extensive record of attracting and successfully supervising students at Masters and PhD level.	Essential	
	Demonstrated evidence of a strong contribution to the achievement of the strategic goals of an organisation.	Essential	
Competencies & Skills	Demonstrated evidence of excellent oral and written communication skills.	Essential	Application Interview Presentation References
	Excellent interpersonal skills including demonstrated ability to work with, mentor and lead colleagues from a diverse range of backgrounds.	Essential	
	Demonstrated sensitivity to the diversity of the student population by the use of different approaches to teaching methods and practice.	Essential	
	Evidence of a substantial and effective contribution to the administration or interests of an organisation, to the wider community and, where appropriate, to the profession.	Essential	
	Sustained success in attracting significant amounts of competitive national and/or international level funding for research activities in addition to internal funding.	Essential	Evidence of published papers, funding received, and roles held

Essential Criteria = requirements without which a candidate would not be able to undertake the full expectations of the role. Applicants who have not clearly demonstrated in their application that they possess the essential requirements will not normally be shortlisted.

Te Herenga Waka - Victoria University of Wellington

For more than a century, Victoria University of Wellington has developed a tradition of fostering strong international links in teaching and research and high quality programmes of national and international significance.

We are committed to providing students with opportunities to acquire, understand and apply disciplinary and interdisciplinary knowledge, as well as the opportunity to gain a global perspective.

Situated in the capital city across three campuses, the University takes advantage of its central location. Connections and relationships are valued with government, business, iwi, the judiciary, public and private research organisations, cultural organisations and resources, other universities and tertiary providers and the international community through the diplomatic corps. Wellington is a vibrant city where learning doesn't stop at the University's doors.

For the University's strategic plan, visit https://www.wgtn.ac.nz/about/governance/strategic-plan

Te Wāhanga a Manaia - Faculty of Science and Engineering

Te Wāhanga a Manaia - Wellington Faculty of Science and Engineering consists of two schools; Te Kura Mātai Pūkaha, Pūrorohiko - School of Engineering and Computer Science and Te Kura Mātai Tatauranga, Pāngarau - School of Mathematics and Statistics. Within Te Kura Mātai Pūkaha, Pūrorohiko - School of Engineering and Computer Science, at an Undergraduate level, we currently offer a three-year Bachelor of Science degree in:

- Artificial Intelligence
- Graphics and Games
- Computer Science
- Electrical and Electronic Engineering

And a four-year Bachelor of Engineering (honours) degree in:

- Software Engineering
- Electrical and Electronic Engineering
- Cybersecurity Engineering