

Position Description – Professor of Rheology and Director of RMPC

Position Details

Position Title:	Professor of Rheology and Director of Rheology and Materials Processing Centre
Position Number:	50023834
College:	Science Engineering and Health
School:	Civil, Environmental and Chemical Engineering
Campus Location:	Based at the city campus, but may be required to work and/or be based at other campuses of the University.
Classification:	Academic Level E Salary Schedule: http://www.rmit.edu.au/browse:ID=ewhltt73t01
Employment Type:	Continuing
Time Fraction:	1.0

RMIT University

RMIT is a global university of technology and design, focused on creating solutions that transform the future for the benefit of people and their environments. We are global in attitude, action and presence; urban in orientation and creativity; and connected through active partnerships with professions, industries and organisations.

RMIT University enjoys an international reputation for excellence in professional and practical educational programs and high quality outcome-oriented research.

One of Australia's original educational institutions founded in 1887, RMIT is now the nation's largest tertiary institution. The University offers an extensive range of postgraduate, undergraduate and vocational programs.

RMIT has three Melbourne campuses – in the central business district and in Brunswick and Bundoora in the city's northern suburbs – and campuses in Hanoi and Ho Chi Minh City in Vietnam. With significant partnerships in Hong Kong, China, Malaysia and Singapore, RMIT has a strong educational presence in the Asia-Pacific region. The University's total student population of 74,000 includes 30,000 international students (onshore and offshore).

RMIT is a leader in technology, design, global business, communication, global communities, health solutions and urban sustainable futures, and is ranked in the top 100 universities in the world for engineering and technology in the 2010 QS World University Rankings.

Details relating to RMIT can be found at:

<http://www.rmit.edu.au>

College and School

The College of Science, Engineering and Health (SEH) encompasses the discipline areas of Aerospace, Chemical, Electronic, Electrical, Civil, Mechanical and Systems Engineering, Applied Chemistry, Physics, Environmental, Computer, Food and Geospatial Sciences; Mathematics and Statistics; Biotechnology and Environmental Biology, Psychology and Disability studies; Complementary Medicine, Medical Sciences, Nursing, Midwifery, Allied Health and Dental Auxiliary Services. Within the College of Science, Engineering and Health, there are 8 higher education schools and 2 vocational education and training schools, delivering a broad range of programs at Apprenticeship,

Certificate, Bachelor, Masters and PhD levels. Many programs articulate between TAFE and Higher Education, creating pathways for further study. The schools facilitate cross-disciplinary work, deepen the discipline base of the University and develop an environment in which academic work and capabilities of staff can flourish.

There is a vibrant research community attracting funding from a range of government and industry sources. The College has an annual budget of approximately \$200 million and employs nearly 1,240 staff providing programs on and offshore to approximately 20,000 students.

Details relating to the College Office may be found on at:

www.rmit.edu.au/seh

The School of Civil, Environmental and Chemical Engineering provides a range of higher education programs at undergraduate and postgraduate levels across the disciplines of Civil Engineering, Chemical Engineering and Natural Resource Engineering (which includes Environmental and Geological Engineering and Geology).

The School has over 1200 students enrolled in undergraduate programs leading to degrees in Civil & Infrastructure Engineering, Civil & Infrastructure Engineering/Business Management, Environmental Engineering, Chemical Engineering, Chemical Engineering/Business Management and Certificate or Diploma in Sustainable Practice.

There are over 70 postgraduate students enrolled in research programs. The postgraduate research programs cover Masters of Engineering and Doctor of Philosophy in a range of new and developing fields. Much of the research activity is linked with industry with a broad range of research interests generally under the themes of Water Engineering, Civil and Infrastructure Engineering, Environmental Engineering, Rheology and Materials Processing.

The staff of the School are fully involved in a wide range of teaching, research, consulting and community service activities, both within the University, locally and internationally through professional organisations, learned societies, industry and commerce.

Details relating to the School can be found at:

www.rmit.edu.au/civilenvirochemeng

Position Summary

The Professor and Director of Rheology and Materials Processing Centre will be responsible for providing clear vision for the Centre, strong leadership in research and consulting activities of the Centre and the management of the Centre. This includes providing research directions in rheology and related areas, exploring external funding from all sources, developing collaboration with industry and professional bodies, making independent and original contributions to research in rheology and related areas, contributing to teaching and learning at undergraduate and postgraduate levels primarily in Chemical Engineering discipline. The position is required to undertake research and consulting activities in line with the University's research strategy that emphasises relevant and applied research, and to contribute to School's objectives of research income.

Reporting Line

Reports to: Head of School, School of Civil, Environmental and Chemical Engineering

Direct reports: Research staff in the Rheology and Materials Processing Centre

Organisational Accountabilities

RMIT University is committed to the health, safety and wellbeing of its staff. RMIT and its staff must comply with a range of statutory requirements, including equal opportunity, occupational health and safety, privacy and trade practice. RMIT also expects staff to comply with its policy and procedures, which relate to statutory requirements and our ways of working.

Appointees are accountable for completing training on these matters and ensuring their knowledge, and the knowledge of their staff, is up to date.

Key Accountabilities

As Professor of Rheology and Director of Rheology and Materials Processing Centre, you will:

1. Provide clear vision for the Centre and strong leadership in research and consulting activities of the Centre; provide research directions in rheology related areas, both fundamental and applied research to maximise Centre's capabilities and outputs, focusing on the agreed strategic University, College and School priorities and objectives, and responding to industry, profession and government agendas.
2. Pro-actively explore and obtain external funding, both competitive and contractual, nationally and internationally for fundamental, strategic and applied research, consulting and training. Undertake independent and original research in line with the University's research strategy that emphasises relevant and applied research. Develop and expand a strong postgraduate research population and supervise Masters and PhD students.
3. Develop and maintain close and stable collaboration and engagement with industry and professional bodies, locally and internationally, to ensure that the research and consulting activities undertaken by the Centre will enhance the reputation of the Centre, School, College and University, and are relevant and industry focused.
4. Contribute to teaching and learning at undergraduate and postgraduate levels primarily in Chemical Engineering discipline and rheology related multi-disciplines. Initiate and conduct continuing education, short and intensive courses and training, and commercial work for industry, profession and the scientific community.
5. Provide effective and efficient management of the Centre and co-ordinate the work of direct reports, including induction, staff development, work planning and performance review, to ensure that the objectives of the School are achieved.
6. Ensure that the appropriate legal and contractual obligations for research and commercial activities are completed and adhered to, and the resource and support infrastructure is in place to allow the projects to be completed on time, as required and within budget.
7. Implement effective quality assurance systems that will achieve government, industry, profession and community recognition for excellence of the Centre's activities.
8. Integrate the best practice occupational health and safety management into the Centre structure, processes, activities and culture. Ensure that responsibilities for OH&S are assigned and included in performance plans and reviews, that staff have the knowledge to meet their responsibilities and that OH&S risks are identified and controlled.
9. Carry out academic and research administration and other tasks as directed by the Head of School.

Key Selection Criteria

The successful applicant will possess:

1. Demonstrated passion, commitment and drive to lead the Centre to achieve excellent in research in rheology and related areas, and to fulfil the objectives of the Centre and the School of research income.
2. Distinguished track record of research, consulting and professional achievement in rheology, with preferred areas of application in one or more of the followings: multiphase fluids, mineral processing and characterisation, food processing and characterisation, materials processing and characterisation.
3. Demonstrated track record of measurable success in significant external research grants, both from competitive and industrial, and national and international funding bodies.
4. Demonstrated track record of supervising research students to completion, mentoring early carer academics and researchers, and collaboration and engagement with industry.
5. Demonstrated track record of scientific publications with both high quality and quantity and in reputable international journals with high impact factors.
6. Demonstrated high level of interpersonal, communication and negotiating skills including the ability to work and consult with senior executives and academics, external bodies, produce executive reports, negotiate agreed directions, outcomes and target within a collegial environment.
7. Demonstrated experience in managing a large research group by being able to plan, develop, implement and review strategic programs, provide creative solutions, and see them through to fruition in a complex environment on time, as required and within budget.
8. Demonstrated ability to be an effective member of a School management committee within a matrix structure to develop and achieve shared goals and objectives, to build research team or teams and to be an academic and research leader within the broad field of chemical engineering and rheology.
9. Demonstrated track record of values and behaviour consistent with the context and leadership culture of RMIT.

Qualifications

PhD in a relevant field, Bachelor in relevant Engineering discipline.

Note: Appointment to this position is subject to passing a Working with Children check.

Endorsed:	Signature: Name: Professor Chun Qing Li Title: Head of School School of Civil, Environmental and	Approved:	Signature: Name: Title: Date:
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	Chemical Engineering Date:		
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