ASSOCIATE PROFESSOR

SCHOOL/UNIT        School of Engineering
SPECIALISATION     Chemical Engineering – Process Control
CLASSIFICATION     Level D (Teaching and Research)
WORK LOCATION      Malaysian campus, Bandar Sunway

ORGANISATIONAL CONTEXT

Monash University is Australia’s largest university, and member of the prestigious Group of Eight research intensive universities. Monash consistently rates in the top 100 universities in the world.

Monash University Malaysia is Monash’s third largest campus, with over 8000 students and 900 staff. We are a comprehensive campus offering degrees in business, engineering, medicine, science, information technology, pharmacy, social science and humanities. We are rated among the very best among universities in Malaysia, and the quality of our research output positions us among the very best universities in Southeast Asia.

Monash University Malaysia provides Monash University with a platform for scholarly engagement with the dynamic Southeast Asia region. We are located in greater Kuala Lumpur, in the Klang Valley, one of the region’s industrial hotspots. We sit in the heart of the rapidly developing economic corridor linking Singapore, Kuala Lumpur, Bangkok and beyond. Our education and research is oriented towards deep engagement with this dynamic social and industrial landscape.

In 2018 we celebrated our twentieth anniversary in Malaysia. During this time we have produced more than 16,000 graduates from more than 70 different countries. We provide a diverse and inclusive scholarly environment.

In 2017 Monash Malaysia was awarded a Six Star SETARA rating by the Malaysian Ministry of Education. This places us in the very top “outstanding” cohort of Malaysian Universities.

Monash University Malaysia is jointly owned by Monash University and the Jeffrey Cheah Foundation.

For further information see: www.monash.edu.my.

The School of Engineering continues to grow rapidly, particularly in the delivery of undergraduate programs, and through the expansion of its facilities and infrastructure. In addressing global engineering challenges of the 21st century, the expansion of research activities in our Malaysian campus is of high priority for the University, reflected by the significant increase of school collaborative partnership with the industry sector, and through the offering of the Higher Degrees by Research, the Master of Engineering Science (Research) and the Doctor of Philosophy (PhD). The School currently has close to 1,500 undergraduate students, consisting of approximately 70 academic staff, and 42 professional and technical support staff.
The School offers the 4-year Bachelor degree in 6 disciplines: Chemical Engineering, Civil Engineering, Electrical and Computer Systems Engineering, Mechanical Engineering, Mechatronics Engineering and Software Engineering. These are the 6 core disciplines of Engineering, driven by the strong and growing demand for capable graduates in Malaysia, the Asian region and beyond.

In line with the School Development Plan and to meet the thriving market demand, the school has recently started to offer the Master of Advanced Engineering (Energy and Sustainability), a 1-year Master by coursework program.

For further information: www.eng.monash.edu.my.

POSITION PURPOSE

An Associate Professor is expected to make a significant contribution to all activities of the school, campus, faculty and university, and play a significant role within the profession or discipline. The appointee is recognised for their distinction in the area of discipline.

The appointee will primarily support teaching and research activities in his/her own disciplinary area. They will be an innovative researcher with strong and current record of research funding and international quality publications.

Reporting Line: The position reports to Head of Discipline

Supervisory Responsibilities: As assigned

Financial Delegation: Not Applicable

Budget Responsibilities: Not Applicable

KEY RESPONSIBILITIES

The key result areas of Research, Teaching and Service are the basis for the primary duties and responsibilities of the role. A workload will be agreed annually with the Head of School in the Performance Development Plan process.

1. Research and Education

- Publish research outcomes in high impact journals
- Establish a strong program of research capable of attracting external funding and research staff
- Successfully supervise honours and HDR students to completion
- Have an active and supportive approach to inter-disciplinary and multi-disciplinary research that will help to foster interactions and links both within the University and externally
- Lead and co-ordinate research activity in the discipline
- Support the development and implementation of research strategy in the School
- Conduct research into learning and teaching methodologies and disseminate best practice within the University and externally
- Provide leadership in teaching and curriculum development
- Design, develop and deliver a range of courses/units in the relevant discipline at undergraduate and postgraduate levels
- Lead the development and clarification of academic standards and quality for the disciplinary area
- Working closely with the Deputy Head of School (Education) in the development and implementation of teaching and learning strategy
- Service to the School and Campus in ways which capitalise on experience and seniority
2. Leadership and Management

- Foster and facilitate the development of outstanding academic programs, research and research training in the relevant discipline
- Facilitate the management of the School’s undergraduate and postgraduate programs, consistent with the objectives of the Campus
- Provide innovative and effective leadership in the discipline
- Contribute to academic and administrative leadership within the School and participate in the development of policy in the School, Faculty and University
- Strengthen links with relevant faculties and schools within the University
- Perform administrative and coordination duties that are necessary for the effective operation of programs
- Actively participate in the administration and strategic development of the School
- Represent the School’s interests, views and needs in the broader Faculty, Campus and University contexts
- Contribute to the School’s talent management agenda through effective mentoring, coaching, supervision and performance management

3. External Relationships

- Develop collaborative linkages and provide advice to government, industry and community organisations on relevant matters
- Liaise with industry to foster collaboration and research opportunities, including funding for postgraduate students
- Develop collaborations with other research groups in Malaysia and overseas
- Provide leadership and participate in community affairs to enhance the standing of the discipline, Faculty and University regionally, nationally and internationally
- Engage in cooperative efforts to develop cross-faculty or multi-disciplinary course proposals and research projects
- Establish collaborative links with government and professional bodies for the promotion and development of the discipline

KEY SELECTION CRITERIA

Education/Qualifications

1. The appointee will have:

   - A Master or a PhD in Chemical Engineering from a recognised university

Knowledge and Skills

2. Demonstrated ability in teaching Process Design and managing Design Project; industry experience in Process Design would be an added advantage

3. Hands on experience in using chemical process simulation software (e.g. ASPEN)

4. Demonstrated high level communication and interpersonal skills with the ability to foster the development of a collegial and supportive working environment and the ability to interact with students and staff with cross cultural sensitivity

5. Demonstrated capacity to provide professional leadership and advice to members of the profession and the wider community on matters relating to the discipline

6. Determination to register as Professional Engineer (PEng) with Board of Engineers Malaysia. Applicants with this PEng qualification will have an added advantage
7. Evidence of scholarly activity of an international standard in the relevant discipline including significant publications in high impact journals, and a demonstrated ongoing high level of commitment to research

8. Demonstrated ability to generate significant external research income

9. Considerable record of successful supervision of Post Graduate students to completion

10. The ability to make a significant contribution to undergraduate and postgraduate programs in the relevant discipline with evidence of innovation in curriculum development, course design and course management

11. Proven commitment to the delivery of excellent teaching and educational services to students and to effectively liaise with stakeholders

12. Demonstrated ability to make a substantial contribution to administration, management and planning at the disciplinary level or higher

13. Substantial experience in academic administration, including people and program management skills, and the ability to promote a collegial, productive culture and to lead and motivate staff to deliver the required outcomes

OTHER JOB RELATED INFORMATION

- Participation in key events for the Campus and School, as required:
  - Monash Open Day and Graduation Ceremonies
  - Campus enrolment and induction sessions as the School’s representative
  - Campus, School and Discipline functions that may take place after normal office hours

LEGAL COMPLIANCE

Ensure you are aware of and adhere to legislation and University policy relevant to the duties undertaken, including: Ethics, Equal Opportunity, Occupational Health and Safety, Conflict of Interest (including Conflict of Interest in Research), Paid Outside Work, Personal Data Protection, Conduct of Research, and Staff/Student Relationships.