



LECTURER

SCHOOL/UNIT	School of Science
SPECIALISATION	Mathematical / Data Sciences
CLASSIFICATION	Level B
WORK LOCATION	Main campus

ORGANISATIONAL CONTEXT

Monash University is a modern, global, research-intensive university, delivering education and research excellence in Australia and across the Indo-Pacific. We are making a positive impact on today's global challenges – whether by mitigating climate change, easing geopolitical insecurity or fostering healthy communities. Monash University is Australia's largest university and a member of the prestigious Group of Eight, a group of Australia's eight leading research universities. We have been consistently ranked among the world's top universities, at 42nd globally in the QS World University Rankings and 54th in the Times Higher Education World University Rankings in 2024, reflecting our strong commitment to academic and research excellence.

Monash University is a global university with four campuses in Australia and a campus in Malaysia and Indonesia. In India, Monash Research Academy is a postgraduate research and PhD training partnership with the Indian Institute of Technology Bombay, whilst Monash-Suzhou is a partnership between Monash University and Southeast University focused on world-class research and training in China. The Monash University Prato Centre meanwhile provides a European base for international research and education. Additionally, Monash has extensive international partnerships and study abroad programs with more than 100+ partner universities around the world.

Established in 1998, Monash University Malaysia is Monash's third-largest campus and one of Malaysia's most respected higher education institutions. More than 9,700 students representing approximately 77 nationalities are currently enrolled at Monash Malaysia, and they enjoy a quality study experience supported by committed staff members. We place a strong emphasis on student experience and strive to produce graduates who can lead and contribute to their local and regional communities. Our graduates can be found in positions of importance all over the world. Since welcoming our first cohort of 417 students, we have graduated more than 27,500 students, including 800 PhDs.

We pride ourselves in educational excellence, offering degrees in arts and social sciences, business, engineering, information technology, medicine, psychology and health sciences, pharmacy, and science across seven schools. New courses in emerging areas, including artificial intelligence, data science, digital business and pharmaceutical science, expand our range of internationally-recognised degrees for a changing world. We invest in constantly upgrading our

facilities to incorporate cutting-edge teaching and learning technology to enhance our students' and staff's experience.

In line with Monash University's strategic plan, Impact 2030, our research focuses on issues of national and global significance. We strive to formulate and implement solutions that could mitigate the effects of climate change, promote geopolitical security in the ASEAN region and improve health and wellbeing to enable communities to thrive. Our [research projects](#) and [researchers](#) are making long-term and sustainable impact across health, economics, policy, technology, the environment and society at large. We also offer a broad range of [world-class infrastructure and services](#) to support the needs of the research community and industry.

Our campus is located in Greater Kuala Lumpur, 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 are oriented towards deep engagement with this dynamic socio-economic and industrial landscape.

Monash University Malaysia is committed to delivering quality education and research to address the global challenges of our time, and we have ambitious plans to reach our goals. Join us as we make a positive difference for the betterment of communities worldwide.

For further information, please visit www.monash.edu.my.

FACULTY OF SCIENCE

One of ten faculties at Monash, and one of the largest science faculties in Australia, Science has a total enrolment of approximately 3,500 students. Six schools offer a large and diverse range of disciplines in undergraduate and postgraduate courses. The Faculty of Science has a strong research reputation. The Faculty's research spans the theoretical to the applied, contributes to new knowledge and technologies, and challenges how we interact with the world. The Faculty's mission is to provide innovative, comprehensive and student-centred programs in science education, and to conduct highly original and significant research to the best international standards.

Schools in the Faculty of Science include:

Clayton campus:

- School of Biological Sciences
- School of Chemistry
- School of Earth, Atmosphere and Environment
- School of Mathematical Sciences
- School of Physics and Astronomy

Malaysia Campus

- School of Science

The School of Science is among seven established Schools in Monash University Malaysia with a range of bachelor's degrees, honours and postgraduate programs with the curriculum features units identical to the prestigious Monash University in Melbourne, Australia. The programs span medical bioscience, food science and technology, microbiology, chemistry, genomics, biotechnology, tropical environmental biology and applied data sciences. These disciplines foster interdisciplinary collaborations that yield holistic solutions to global challenges. In pursuit of knowledge towards

innovation and making a significant impact on society, the dedication to excellence, curiosity for research, and embracement of diversity paves a future where science is a force for transformation.

The School of Science advocates of research-led learning, where classroom theories intersect with cutting-edge research. By merging education and research, we expose our students to the forefront of scientific inquiry. This approach doesn't just create graduates; it nurtures visionaries armed with the tools to shape the world.

The interdisciplinary research work on critical problems at the intersection of biology, chemistry, medicine and data analytics to deliver solutions for food security, water, environment and health. The key research areas include:

- Green and Sustainable Chemistry
- Functional and Future Food
- Genomics and Big Data Analytics for One Health
- Drug Discovery and Development
- Tropical Biodiversity and Conservation Biology

Innovation thrives in conducive environments. The School of Science provides state-of-the-art facilities that incite discovery. From cutting-edge laboratories in genomics, drug discovery & development to technological hubs in food and physical sciences and genomics, our facilities foster collaboration, experimentation, and the pursuit of new frontiers. Our advanced Genomics Platform is the first laboratory and research platform at Monash University Malaysia to achieve the ISO 9001:2015 standard, awarded for providing consistent and quality service. The platform has produced over 181 publications and generated more than 2.5 terabytes of sequencing data.

The School of Science envisions a future where science is an accelerator for progress. As we tread the path of innovation, collaboration, and discovery, we invite you to join us on this transformative journey. Together, we can reshape societies, drive sustainable development, and unlock the boundless potential that science holds.

For further information, please visit <https://www.monash.edu.my/science>

POSITION PURPOSE

A Level B academic staff is expected to make contributions to the teaching effort of the university and to carry out activities of the organisational unit or interdisciplinary area to maintain and develop her/his scholarly, research and/or professional activities relevant to the profession or discipline. Academics at this level may be appointed in recognition of distinction in their disciplinary area.

The position is expected to engage in high-quality education and research developments of the School. S/he will play a strong leadership role in educational innovation, curriculum design and review. S/he will make an outstanding contribution inside and outside of the University, and in engagement with the community and profession, especially in areas related to teaching and learning. The position shall actively engage in research in the field of specialization in line with the School's research strategy, achieve a substantial active publications record (high-quality refereed journals) and research funding, and high engagement with the industry. S/he may supervise and mentor early career researchers and research students.

Reporting Line: The position reports to the Deputy Head of School (Education).

Supervisory responsibilities: Not applicable

Financial delegation and/or budget responsibilities: Not applicable

KEY RESPONSIBILITIES

1. Contribute to curriculum development, innovation, enhancement and quality assurance in the undergraduate and postgraduate curriculum.
2. Develop and deliver innovative and excellent teaching, learning and assessment experiences for undergraduate and postgraduate students.
3. Conduct world class research, maintaining an active record of high quality publication, grants, and PhD student supervision broadly in the designated area.
4. Contribute to the development and implementation of a research strategy for the School of Science consistent with the research priorities of Monash University Malaysia and Monash University.
5. Contribute to the development of strong collaborations with other universities and with government, industry and/or civil society to drive research impact and educational excellence.
6. Contribute to the management of education, research and/or administration in the School, including coaching, mentorship, leadership and effective performance management.

KEY SELECTION CRITERIA

Education/Qualifications

1. A doctoral qualification (PhD) or equivalent qualification.
2. A strong record of successful and innovative curriculum development.
3. An outstanding record of teaching which demonstrates a commitment to educational innovation.
4. An excellent research record, demonstrated by world class publications, grants and PhD supervision in the relevant area.
5. A strong record in research leadership including generating research income, leading major research projects and, where relevant, building research teams.
6. Ability to promote the discipline internally within the university as well as externally, both nationally and internationally.
7. Demonstrated skills and experience in collaboration and leadership.

LEGAL COMPLIANCE

Ensure you are aware of and adhere to legislation and University policy relevant to the duties undertaken, including: Equal Employment Opportunity, supporting equity and fairness; Occupational Health and Safety, supporting a safe workplace; Conflict of Interest (including Conflict of Interest in Research); Paid Outside Work; Privacy; Research Conduct; and Staff/Student Relationships.