Lecturer/Senior Lecturer in Organic Chemistry

Department/Unit	School of Chemistry
Faculty/Division	Faculty of Science
Classification	Level B/C
Work location	Clayton campus
Date document created or updated	April 2018

Organisational context

Everyone needs a platform to launch a satisfying career. At Monash, we give you the space and support to take your career in all kinds of exciting new directions. You'll have access to quality research, infrastructure and learning facilities, opportunities to collaborate internationally, as well as the grants you'll need to publish your work. We're a university full of energetic and enthusiastic minds, driven to challenge what's expected, expand what we know, and learn from other inspiring, empowering thinkers. Discover more at www.monash.edu.

The **Faculty of Science** contributes to the university's goals via research, teaching and partnerships with industry, government and individual supporters. Our five Schools cover a large and diverse range of disciplines in undergraduate and postgraduate courses. Ten Schools from other university faculties contribute to science teaching at all levels, allowing students to choose their studies from physical, biological, biomedical, behavioural, environmental, mathematical and computer sciences. The research in the Faculty of Science is carried out by world-class researchers. Their work spans the theoretical to the applied, contributes to new knowledge and technologies, and challenges how we interact with the world. To learn more about the Faculty of Science, please visit our website: www.monash.edu/science.

The **School of Chemistry** is located in the Faculty of Science and is the leading Chemistry School in Australia. International ranking agencies place the School well within the top-50 worldwide. The School aspires to excellence in research and teaching and learning, and drives innovative practices in both. This is underpinned with a strong strategic alignment to industry and government, and through strong international connections and partnerships. The School is the University's custodian of a new $75 million building, purpose-built as an education, research and industry interface. In light of this, the School is currently focused on strengthening its impact from world-leading science through new strategic collaborations with industry, and is looking to strengthening its capability in organic chemistry and related fields.

The School has recognised research strengths and capability in the fields of Synthesis, Materials and Nanoscience, Energy, Chemical Biology and Health, Environmental and Analytical Chemistry, Food and Agriculture, and Chemical Education. In organic chemistry, the School has existing strengths in Catalysis (transition, organo- and bio-catalysis), Asymmetric and Natural Product Synthesis, Green Chemistry, Polymers and Medicinal Chemistry.

Position purpose

These positions will be responsible for contributing to the research and teaching effort of the School, and is expected to engage and provide leadership within the University and in their discipline and profession.

The appointee will be expected to lead and be involved in research programs in organic chemistry and related fields, with the ultimate focus being to refine and enhance the knowledge of chemistry and science. The appointee will be required to undertake academic duties that include the lecturing in, and administration of, undergraduate and postgraduate teaching programs, and supervision of postgraduate research students.

Reporting Line: These positions reports to the Head of School under broad supervision

Supervisory Responsibilities: These positions will include the supervision of higher degree research students

Financial Delegation: Not applicable

Budget Responsibilities: Not applicable

Key responsibilities

Level B

1. Participate in innovative teaching programmes, including the preparation and development of course material, delivery of lectures, e-learning and group teaching
2. Preparation of assignments, laboratory-based exercises, examinations and other assessable coursework
3. Contribute to the undergraduate teaching program in organic chemistry, and participate in curriculum development, unit coordination, assessment and student consultation
4. Establish a strong, individual and independent programme of research, publish research outcomes, including publications in high impact journals, and supervise Honours and postgraduate students engaged in coursework and research
5. Apply for National Competitive Research grants (e.g. through the Australian Research Council and/or the National Health and Medical Research Council), and access other funding sources (e.g. non-government sources), both nationally and internationally
6. Develop collaborations with other research groups in the School, elsewhere at Monash and in Australia, and internationally
7. Contribute to the administration of the School's teaching and research activities
8. Propose and develop strategic objectives in Organic Chemistry for the School
9. Participate in School, Faculty of Science and University committees
10. Contribution to the profession and discipline (e.g. Royal Australian Chemical Institute)

Level C

1. Lead and participate in innovative teaching programmes, including the preparation and development of course material, delivery of lectures, e-learning and group teaching
2. Provide leadership in the development and delivery of new coursework in organic chemistry, undertake year level and unit coordination, assessment and student consultation
3. Provide leadership in the preparation of assignments, laboratory-based exercises, examinations and other assessable coursework
4. Establish a strong, individual and independent programme of research, publish research outcomes, including publications in high impact journals, and supervise Honours and postgraduate students engaged in coursework and research training
5. Supervision and mentor Postdoctoral Fellows and Early Career Researchers
6. Apply for National Competitive Research grants (e.g. through the Australian Research Council and/or the National Health and Medical Research Council) and access other funding sources (e.g. non-government sources), both nationally and internationally
7. Develop collaborations with other research groups in the School, elsewhere at Monash and in Australia, and internationally
8. Contribute to the administration of the School's teaching and research activities
9. Propose and develop strategic objectives in Organic Chemistry for the School and participate in School, Faculty of Science and University committees
10. Contribute to the profession and discipline (e.g. Royal Australian Chemical Institute)

Key selection criteria

Level B

A Level B academic shall have qualifications and/or experience recognised by the university as appropriate for the relevant discipline area of Organic Chemistry. In determining experience relative to qualifications, regard is had to teaching experience, experience in research, experience outside tertiary education, creative achievement, professional contributions and/or contributions to technical achievement.

Education/Qualifications:

1. The appointee will have:
    - Relevant academic qualifications, including a PhD in Organic Chemistry; or
    - relevant academic qualifications in a closely related field

Knowledge and Skills

2. Experience in developing course material, coordinating tutors, conducting lectures and tutorials, in assessment and exam marking
3. Research achievements in Organic Chemistry, including a record of citations and significant publications in the highest impact chemistry journals
4. Capacity to develop a significant independent research program and the ability to collaborate effectively within and between disciplines and/or with industry
5. Evidence of experience in the successful supervision of undergraduate and postgraduate research students
6. An ability to attract government and/or non-government research funding
7. Excellent written and verbal communication skills necessary to carry out the duties of the position
8. High level interpersonal skills and proven ability to establish a good working relationship with colleagues and students and to utilise and extend strong professional links with relevant industry and the community
9. An ability to work independently and as a member of a team. This would include an understanding of the importance of contributing to committees and workings within the School, Faculty and University
10. A well-developed ability to convey information (written and verbal) in both teaching and research in a clear, concise and interesting manner, and capability and willingness to develop innovative and tailored educational programs
11. Demonstrated contributions to the wider academic community

Level C

A Level C academic shall have qualifications and/or experience recognised by the university as appropriate for the relevant discipline area of Organic Chemistry. A position at this level will require a doctoral qualification or equivalent accreditation and standing. In determining experience relative to qualifications, regard shall be had to teaching experience, experience in research, experience outside tertiary education, creative achievement, professional contributions and/or contributions to technical achievement. In addition, a position at this level will normally require a record of leadership and demonstrable scholarly and professional achievement in the relevant discipline area.

Education/Qualifications:

1. The appointee will possess:
    - Relevant academic qualifications, including a PhD in Organic Chemistry; or
    - relevant academic qualifications in a closely related field

Knowledge and Skills

2. Experience in developing course material, coordinating tutors, conducting lectures and tutorials, in assessment and exam marking

3. Research achievements in Organic Chemistry, including a strong record of citations and significant publications in the highest impact chemistry journals
4. Demonstrated ability to develop an independent research program and the ability to collaborate effectively within and between disciplines and/or with industry
5. Evidence of a successful record of quality research supervision of higher degree research students, including evidence of successful completions and completion rates
6. Evidence of an ability to attract government and/or non-government research funding
7. An ability to work independently and as a member of a team. This would include an understanding of the importance of contributing to committees and workings within the School, Faculty and University
8. High level interpersonal skills and proven ability to establish a good working relationship with colleagues and students and to utilise and extend strong professional links with relevant industry and the community
9. A well-developed ability to convey information (written and verbal) in both teaching and research in a clear, concise and interesting manner, and capability and willingness to develop innovative and tailored educational programs
10. Demonstrated contributions to the wider academic community

Other job related information

- Travel to other campuses of the University may be required
- There may be peak periods of work during which the taking of leave may be restricted

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.