# Professor, or Associate Professor in Creative Technologies

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| **Department/Unit** | Caulfield campus |
| **Faculty/Division** | Faculty of Information Technology |
| **Classification** | Level D or Level E |
| **Work location** | Caulfield campus |
| **Date document created or updated** | April 2018 |

## Organisational context

Monash is full of thinkers and doers who are looking for their next challenge. So if you've forged a rewarding career so far, this role provides the perfect platform to join us. You'll have access to quality research facilities, infrastructure and teaching spaces to do exciting work, along with opportunities to collaborate internationally. You'll be part of a university that's made up of inspirational, challenging thinkers and doers – and continue doing work that makes a lasting impact. Discover more at www.monash.edu.

**The Faculty of Information Technology** is represented on two campuses in Australia – Caulfield and Clayton – and in Kuala Lumpur and Johannesburg. It undertakes teaching and research across a broad range of information technology disciplines.

The Caulfield campus delivers the Faculty's core teaching and research programs. The School has some 50 academic and research staff and some 800 enrolled equivalent full-time students in undergraduate, postgraduate and research degrees.

For further information, please visit our website at www.infotech.monash.edu.au/.

SensiLab is a dynamic, interdisciplinary research space established to address the contemporary research challenges of the Internet age. Based in the Faculty of Information Technology and situated within the University's creative art, design and architecture precinct, the lab collaborates with researchers across the university and builds productive partnerships with leading industry, academic and cultural institutions. The lab's aim is to bring design, creativity and serious play to the applications of new technologies. Combining emerging and state-of-the-art technologies with initiatives such as fablabs, maker spaces and design studios SensiLab imagines and builds future technologies and seeks to inspire the next generation of interdisciplinary researchers. You can find out more about the lab on our website: https://sensilab.monash.edu/.

## Position purpose

In this position you will be responsible for playing a leadership role in the SensiLab team: contributing to and directing its research programs; developing industry and commercial partnerships; supporting and promoting interdisciplinary collaboration. The lab undertakes research in four major themes in creative technology:

- Media futures, developing new media experiences using emerging and experimental technologies, including virtual, augmented and mixed reality

- Creative AI: using the latest advances in Artificial Intelligence and deep learning to enhance and support creative practices in art, design, music and performance

- Sensory and interactive spaces: creating sensory experiences and interactive spaces that engage multiple senses, the body and technology

- Hybrid fabrication: fusing robotics, digital fabrication and biology to create the next generation of computational and generative design tools for material intelligence

SensiLab is well equipped with a range of exciting new technologies and dedicated studios to support research, including a dedicated Nvidia DGX-1 Deep Learning supercomputer, high-performance GPU/CPU clusters, studios for sound, music and interactive image production, immersive visualization platforms, a collaborative makerspace, electronics device design and digital fabrication technologies, including FDM and SLS 3D printing and robotic fabrication systems.

A Level D academic is expected to make a significant contribution to all activities of the organisational unit or interdisciplinary area and play a significant role within their profession or discipline. Academics at this level may be appointed in recognition of distinction in their disciplinary area.

A Level E academic is expected to exercise a special responsibility in providing leadership and in fostering excellence in research, teaching, professional activities and policy development in the academic discipline within the department or other comparable organisational unit, within the university and within the community, both scholarly and general.

**Reporting Line:** The position reports to Professor Jon McCormack

**Supervisory Responsibilities:** Not applicable

**Financial Delegation:** Not applicable

**Budget Responsibilities:** Not applicable

# Key responsibilities

Specific duties required of a Level D academic may include:

1. The preparation and delivery of lectures, tutorials, practical classes, demonstrations, workshops, and clinical sessions
2. Initiation and development of course materials, including new units or programs in creative technologies
3. Course coordination including offering guidance to assistant lecturers and supervision of sessional staff in teaching unit/s if required
4. Consultation with students and supervision of PhD, honours and postgraduate students
5. Preparation and assessment of student assignments and examinations
6. Conduct of original research that will lead to publications in refereed journals or with high level academic or commercial publishers and attract external and government funding
7. Development of original practice-based research and creative works that will lead to exhibition at leading international galleries, museums or cultural institutions
8. Significant role in research projects including, where appropriate, leadership of a research team
9. Significant contribution to the profession and/or discipline both nationally and internationally

# Key selection criteria

**Education/Qualifications**

1. The appointee will have:
   - A doctoral qualification; or
   - recognised significant experience in the relevant discipline area

**Knowledge and Skills**

2. A strong publication record in high-quality journals or equivalent and outstanding contribution to the discipline
3. A professionally recognised creative practice informed by research
4. Successful track record in obtaining external research grants

5. Record of successful supervision of postgraduate research students and the ability to make a significant contribution to postgraduate training programs

6. Demonstrated excellence in teaching in the relevant discipline area (i.e. through evaluations, innovation in presentation and through curriculum development)

7. Demonstrated ability to mentor staff and students

8. High level of interpersonal skills and a proven ability to establish good working relationships with colleagues, students and members of community and professional bodies

9. Demonstrated leadership in committees and other administrative work and portfolios

10. Proven ability to promote the discipline internally within the university as well as externally both nationally and internationally

11. A demonstrated capacity to work in a collegiate manner with other staff in the workplace

# Key responsibilities

Specific duties required of a Level E academic may include:

1. Actively engage in a specialist research area in line with the faculty's research strategy, by maintaining a substantial active publications record (high-quality refereed journals, leading international conference publications, scholarly books from leading international publishers) and supervising and mentoring early career researchers and research students

2. Foster research excellence through procuring competitive research grants, leading significant research projects and working with other staff to develop research links

3. Provide strong and committed leadership in teaching, curriculum development and research training by participating in the faculty's curriculum planning and development processes, academic committees, and relevant examination processes in addition to monitoring the quality of individual teaching in the relevant discipline

4. Provide innovative and effective leadership for the expansion of the faculty's HDR program by attracting high quality HDR students

5. Contribute to academic and administrative leadership within the faculty by participating in the development of policy and strategy

6. Maintain and broaden collaborative partnerships with relevant faculties and departments/schools within the University and community

7. Maintain and broaden collaborative partnerships with external agencies both nationally and internationally, making a significant contribution to the profession

8. Actively contribute to partnering with industry and diversifying funding avenues

# Key selection criteria

**Education/Qualifications**

1. The appointee will have:

- A doctoral qualification;

- equivalent accreditation and standing, and recognised as a leading authority in the relevant discipline

**Knowledge and Skills**

2. Evidence of outstanding scholarly activity of an international standard in Information Technology and a demonstrated ongoing commitment to one or more programs of research

3. Demonstrated ability to generate research income, including from both traditional and more innovative sources of research funding

4. Record of successful supervision of postgraduate research students and the ability to make a significant contribution to postgraduate training programs in Information Technology

5. Proven excellence in teaching (at both undergraduate and postgraduate levels)

6. Willingness and capacity to make a substantial contribution to all activities of the department, including administration and planning

7. Proven professional leadership qualities and capacity for executive administrative responsibilities

8. Evidence of sustained relationships with industry coupled with vision for the future needs and development of the Sensilab research team within Australia and internationally

## Other job related information

- Travel to other campuses of the University may be required
- There may be a requirement to work additional hours from time to time
- There may be peak periods of work during which 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.