



# PROFESSOR AND HEAD OF MATERIALS SCIENCE AND ENGINEERING

<b>DEPARTMENT/UNIT</b>	Department of Materials Science and Engineering
<b>FACULTY/DIVISION</b>	Faculty of Engineering
<b>CLASSIFICATION</b>	Level E
<b>WORK LOCATION</b>	Clayton campus

## ORGANISATIONAL CONTEXT

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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](http://www.monash.edu).

The **Faculty of Engineering** is one of the largest in Australia, renowned worldwide for the quality and calibre of our teaching, research and graduates. We offer a comprehensive range of undergraduate, graduate, postgraduate and higher degree by research programs in a wide range of engineering disciplines. Our research activities provide a platform for establishing a thriving educational enterprise and our staff are committed to creating a dynamic learning environment. The research activities range from fundamental studies to research with a strong industry and applications orientation. To learn more about the Faculty of Engineering, [please visit our website](#).

The Department of Materials Science and Engineering aims to provide the highest quality teaching and research. We are one of the most research-active departments within Monash, and the top-ranked Materials Science and Engineering Department in Australia with much success in obtaining significant funding and delivering industry impact. Our research is broadly focussed in the areas of Additive Manufacturing, Biomaterials, Functional and Energy Materials, Metallurgy and Polymeric Materials. In terms of our teaching, the enabling aspects of materials engineering combined with the multidisciplinary nature of skills learned means our graduates are in high-demand across industry, as well as in research. To learn more about our Department and the work we do, [please visit our website](#).

## POSITION PURPOSE

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The Head of Department Materials Science and Engineering will be expected to bring a strong personal commitment and reputation in both education and research. Eminently credible, they will drive the ongoing, international profile of our research whilst simultaneously leading innovative pedagogical activities in order to ensure that our students' University experience is of the highest standard and recognisable

**Reporting Line:** The position reports to the Dean, Faculty of Engineering

**Supervisory Responsibilities:** The Head of Department has supervisory responsibility for a total staff (FTE) of approximately 71 consisting of teaching, research, professional and technical staff

**Financial Delegation:** Not Applicable

**Budget Responsibilities:** Yes, in line with Key Responsibilities

## APPOINTMENT PERIOD

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The professorial appointment will be a continuing appointment in the Department of Materials Science and Engineering and will include the role of head of Department for an initial period of 5 years with opportunity for renewal.

## KEY RESPONSIBILITIES

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1. Provide high-level strategic leadership to the department that is aligned with faculty and university strategic plans by managing, administering and fostering excellence in teaching, research and professional activities
2. Take responsibility for staff leadership and management, including team building, recruitment and selection, performance management and staff development ensuring equitable management of staff workload, including teaching, research and administration
3. Work collaboratively with key staff across the Faculty and broader University community and support the Dean as a trusted advisor in the development of a Faculty of Engineering which is acknowledged as world class
4. 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
5. Using best practice methodologies drive educational innovation through the initiation, development and review of course material
6. Course coordination and course content and delivery enhancement, including the preparation and delivery of lectures and seminars, and the design, implementation and review of educational innovations including offering guidance to assistant lecturers and supervision of sessional staff in teaching unit/s as required
7. Consultation with students including marking and assessment of coursework and guidance on areas of development
8. 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) and supervising and mentoring early career researchers and research students
9. Contribution to scholarly debate within the profession, production of high quality research that has industry relevance and presentation of research results at national and international forums leading to the attraction of external and government funding

10. Provide innovative and effective leadership for the expansion of the faculty's HDR program by attracting high quality HDR students
11. Involvement in professional activities such as networking and industry events to enhance relationships and drive collaboration and funding opportunities both nationally and internationally
12. Exercise strong budget management for the project(s) managed to a value of \$28M

## **KEY SELECTION CRITERIA**

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### **Education/Qualifications**

1. The appointee will have:
  - A doctoral qualification and recognised as a leading authority in the relevant discipline

### **Knowledge and Skills**

2. Demonstrated experience in various facets of academic management including the necessary leadership, strategic planning, financial, human resources and decision-making skills needed to manage a school/department
3. Demonstrated experience and evidence of outstanding scholarly and cross-disciplinary research activity of an international standard in Engineering and a demonstrated ongoing commitment to one or more programs of research
4. A strong publication record in high-quality refereed journals, conferences, equivalent textbooks or teaching resources
5. Evidence of securing significant nationally-competitive grants and/or other sources of funding for research
6. Demonstrated record of successfully supervising postgraduate research students to completion and the ability to make a significant contribution to postgraduate training programs
7. Demonstrated excellence in the development and delivery of high quality teaching and curriculum, at the undergraduate and postgraduate level
8. Exceptional written and verbal communication skills and evidence of sustained relationships with industry, business, government agencies and professional bodies, coupled with vision for the future needs and development of their discipline area(s) within Australia and internationally
9. Proven ability to plan, organise and achieve work targets, sometimes in demanding circumstances, and work harmoniously and constructively with academic colleagues and other University staff
10. Proven professional leadership qualities and capacity for administrative responsibilities, and a willingness to make a substantial contribution to all activities of the department and faculty, including: mentoring, leadership on committees, administration and planning
11. Proven ability to promote the discipline internally within the university as well as externally both nationally and internationally
12. A vision for the future and plans to develop the school disciplines within Australia and internationally, from research and educational perspectives

## **OTHER JOB RELATED INFORMATION**

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

## **LEGAL COMPLIANCE**

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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.