

Candidate Information

Position:	Professor of Manufacturing (Part Time)
School/Department:	School of Mechanical and Aerospace Engineering
Reference:	19/107307
Closing Date:	Tuesday 2 April 2019
Salary:	Professor salary will be determined in accordance with the Professorial ranges as applied within the University
Anticipated Interview Date:	Tuesday 9 April 2019

Job Purpose

The School of Mechanical and Aerospace Engineering seeks to appoint a Thought Leader to develop our vision for the area of advanced manufacturing.

<http://go.qub.ac.uk/AdvancedManufacturing>

You will be a senior academic of the very highest international standing, who will enhance our international connectivity and provide significant academic leadership in a multi-disciplinary research-led environment.

With exemplary skills in building strong partnerships with other institutions, business and government you undertake a representational role both within the University and externally, as we drive the Region's ambitious Advanced Manufacturing Agenda.

Sharing the Institutions values, as a senior academic in Queen's you will play a key role in making us a world class international university that supports outstanding students and staff, and conducts leading-edge education and research, focused on the needs of society.

MAIN ACTIVITIES/RESPONSIBILITIES:

The following describes the type of work that is typically required of academic staff at this most senior of levels. It is not expected that any individual would carry out all the activities mentioned below and, of course, different and additional duties may also apply as required.

1. Research

- Undertake high-quality research in advanced manufacturing which enhances the profile of the School and Queens.
- Sustain an extensive track record of published research of the very highest international distinction, by publishing in refereed journals, with leading publishers, and presenting at national/international conferences.
- Pursue large-scale funding activity (particularly projects likely to be supported by Research Council UK and equivalent external funders) which develops and sustains research support for Engineering in general and in his/her particular specialisation and that, in general, advances the reputation of the School and the University.
- Provide supervision for research students
- Ensure that research projects are completed on time, within budget and generate outputs and impact of the highest quality.

2. Academic Leadership

- Provide academic leadership by co-ordinating the work of others to ensure the development and delivery of research activity, including large-scale research projects, of the highest international quality and significance.
- Be involved in the strategic and operational planning over a number of years for the School and Faculty and where appropriate contribute to the University's strategic planning process.
- Provide vision and direction in the area of Advanced Manufacturing.
- Direct, mentor and develop academic and research staff, including acting as a personal mentor to peers and colleagues, and being a role model in the development of early-career staff.

3. Societal and Economic Impact

- Lead and develop links with internal and external partners to promote knowledge transfer and the development of research themes and outputs. This may involve chairing and participating in institutional committees and the undertaking of executive roles on major national or international bodies and/or providing advice to governments, national and international agencies and other significant universities and HEIs.
- To lead the development of pioneering techniques in advance manufacturing that can be adapted for commercial and societal impact.
- To actively engage in School and Faculty outreach activities e.g. Open Days, School liaison visits, engagement with employability agenda, and activities associated with the University's Social Charter.

Essential Criteria

- A degree in Engineering or cognate discipline.
- A PhD in Engineering or cognate discipline; or equivalent academic standing evidenced by a sustained record of major publications.
- Recognised excellence and reputation – research internationally acknowledged as world-leading.
- Sustained publication record of outputs of world-leading quality that fully demonstrates a formative and lasting contribution to the field.
- Sustained record of securing and enabling large-scale research funding, awarded through competitive external peer-review processes.
- Sustained record of successful delivery of such funded projects, including the management of financial and human resources.
- Sustained record of successful PhD supervision, including demonstrated potential to develop PhD and postdoctoral funding sources.
- Sustained track record of invitations as keynote/plenary speaker at major international conferences/University named lectures; chair of major conferences/events.
- Substantial experience of teaching and assessment in an Engineering school context at University level.
- Evidence of ability to teach and assess core modules in Engineering at undergraduate and postgraduate level.
- Substantial and significant experience of providing academic leadership at a strategic level in Higher Education.
- Demonstrated ability to contribute to the academic leadership of the School in general and the appropriate research field in particular.
- Outstanding contribution to the development of staff and students. Sympathetic to the needs of early-career researchers, with demonstrable ability to provide effective mentoring.
- Proven ability to plan and deliver a programme of research and proven skills in coaching and developing others in best practice techniques.
- Involvement in productive external collaboration with leading international scholars and non-academic beneficiaries, with demonstrated ability to develop impactful international research and impact opportunities of the highest quality.
- Executive roles on, or committee membership of, major national and/or international bodies, and/or evidence of a track record of providing advice to governments or other significant universities.
- Ability to communicate complex information effectively.
- Ability to provide effective leadership.
- Understanding of resource management processes and skills to apply them effectively.