

Candidate Information

Position:	AMIC (Campus) Senior Industry Research Fellow
School/Department:	BRC D AMIC
Reference:	22/109753
Closing Date:	Monday 2 May 2022
Salary:	£42,149 - £51,799 per annum
Anticipated Interview Date:	Thursday 2 June 2022
Duration:	5 Years

JOB PURPOSE:

The Belfast Region City Deal (BRC D) is a £1bn investment by the UK Government and NI Executive aimed at stimulating long-term economic growth. As part of this innovation and growth package, Queen's is leading the establishment of the new Advanced Manufacturing Innovation Centre (AMIC).

As a member of AMIC you will be based in the School of Mechanical and Aerospace Engineering and report to the AMIC Director. The role will have two principal objectives; (i) to help develop a high-quality, interdisciplinary research programme in AMIC Campus –(<https://www.brcd-innovation.co.uk/projects/amic>) and (ii) to work at the interface of AMIC Campus and the AMIC Innovation Centres to translate the University's research into technology demonstrators and address industrial challenges. The role will be responsible for supporting the definition of advanced manufacturing and engineering research across Schools and Research Centres of the Faculty.

MAJOR DUTIES:

1. To define and deliver the strategic research priorities of AMIC Campus, particularly in relation to the expansion and diversification of its research portfolio through links with relevant research groups (internal and external), industries, and external bodies.
2. To lead on the delivery the integrated AMIC R&D activities within/across the programme work packages.
3. Develop and lead an area of personal research activity related to the AMIC research portfolio, including delivery of high-quality publications either solely or in collaboration with others, securing grant income from UKRI, including acting as principal investigator where appropriate, to drive the growth of AMIC Campus.
4. Contribute to the creation of an AMIC Research Plan and play in active role in its development and implementation.
5. Synthesise research challenge requirements from industry and, via working closely with Research and Enterprise, provide expertise and guidance to faculty staff regarding the definition of research programmes to address those challenges, and on innovation and translational research opportunities in AMIC.
6. Contribute to income generation via winning funding for new projects, helping to build consortia, managing parts of bids, and providing technical input to proposals, including securing funding in own research specialism to support own research team.
7. Direct, coach and develop more junior research staff (up to AC2) and technical support (up to G7) where appropriate.
8. Enhance international reputation by sustaining the regular dissemination of findings through leading peer-reviewed publications, presenting results at conferences, exhibiting work at other appropriate events, helping develop external networks to help build relationships for future AMIC activities.
9. To act as an ambassador for AMIC internally and externally and contribute to the University's/AMIC Campus outreach strategy by developing links with relevant research groups, industries, and external bodies to encourage knowledge exchange opportunities and to promote AMICs regional, national, and international profile.
10. Be a member of committees relevant to AMIC research and carry out designated administrative duties within the School/Faculty.
11. Undertake all other duties as directed by the AMIC Director in line with the role purpose and remit.

ESSENTIAL CRITERIA:

1. A PhD or equivalent professional qualifications and experience in completed in an engineering or advanced manufacturing subject area.

2. An established research track record with a growing reputation in research within subject specialism which is proven by:
 1. High quality peer-reviewed publications of international standing within the area of advanced manufacturing.
 2. Research income generation by developing research proposals of scale for research councils
 3. Proven ability to negotiate and influence at all levels (academia and industry) in order to foster and maintain key relationships.
 4. Proven ability to lead research teams to deliver research outcomes and to supervise the work of researchers, other staff and research students.
 5. Demonstrable success in directing research programmes from specification to delivery and impact.
3. Demonstrable experience of working in industry / industrially partnered projects in the domains of Physical Sciences, Engineering, or Advanced Manufacturing.
4. Excellent interpersonal and communication skills to communicate new and complex information effectively, both verbally and in writing, engaging the interest and enthusiasm with the target audience.
5. Excellent ability to build effective working relationships with university staff and external stakeholders in other higher education institutions and/or the public and private sector.
6. Demonstrable experience of writing reports, preparing, and giving talks/ presentations in a variety of contexts both nationally and internationally.

DESIRABLE CRITERIA:

1. Relevant national committee memberships.
2. Holds a current independent research fellowship in the area of advanced manufacturing.
3. Demonstrable academic or commercial experience of applying advanced manufacturing research to real-world problems.
4. Demonstrable ability to build a research team/centre.