Candidate Information

Position:	Professor: Intelligent Systems Or Cognitive Robotics
School/Department:	School of Electronics, Electrical Engineering and Computer Science
Reference:	18/106899
Closing Date:	Thursday 22 November 2018
Salary:	Professor salary will be determined in accordance with the Professorial ranges as applied within the University.

JOB PURPOSE:

To lead and develop internationally recognised research and establish externally funded major research programmes of distinction in Intelligent Systems and/or Cognitive Robotics. To teach undergraduate and postgraduate students and provide relevant subject leadership in the School of Electronics, Electrical Engineering and Computer Science, and to contribute to administration and outreach activity.

MAIN ACTIVITIES/RESPONSIBILITIES:

1. Research (50%-70% of time spent)

- To grow and lead an internationally competitive and distinctive research programme in Intelligent Systems and/or Cognitive Robotics, supported by a vibrant team of academic and research staff.
- To secure substantial external funding through research applications and develop income-generating collaborative research activities of significant scale.
- To regularly publish milestone, influential outputs in internationally recognised peer reviewed journals or prestigious conferences.
- To engage in knowledge transfer and innovation activity and to deliver tangible research impact by working closely with University and external stakeholders.
- To engage with regional and national Government initiatives relevant to expertise, notably the UK industrial strategy and UKRI initiatives.
- To contribute to the strategic growth and mission of i-AMS and the School of EEECS.
- To develop and maintain an internationally recognised profile and reputation for research.
- To attract and supervise post-graduate research students and post-doctoral researchers and fellows.

2. Education (10%-25% of time spent)

- To be responsible for the design and delivery of intelligent systems and/or robotics related content in the Computer Science, Computing and Electrical and Electronic Engineering curricula.
- To provide leadership in Computer Science, Computing and Electrical and Electronic Engineering curriculum development as expected by a senior member of staff, including subject leadership for new programme development.
- To contribute to the School's efforts to develop new teaching delivery methods, including but not limited to new blended learning and research-led teaching methods.
- To undertake initiatives to improve the overall student experience, by new methods of assessment, feedback, and student engagement.
- To supervise undergraduate and postgraduate taught students in practical and project-based work including Final Year Projects and MSc/MEng dissertations.

3. Leadership and Administration (10%-25% of time spent)

- To provide effective leadership in the School of EEECS, particularly in supporting early career staff and in developing an ethos of collegiality and collaboration.
- To provide leadership, guidance and mentoring to help staff raise their ambition and develop their career within the School. To advise on and review career development plans for staff within the School.

- To actively engage with and contribute to the full range of student recruitment and internationalisation activities such as Open Days and taster events or international summer schools.
- To carry out designated School leadership and/or service including, for example, University committee membership, working group leadership or course administration, or leadership activities within i-AMS.
- To undertake senior external service commitments commensurate with the Professorial academic profile.
- To be an advocate and an ambassador of the University.

ESSENTIAL CRITERIA:

- A PhD in Computer Science, Electronic Engineering or a closely related discipline.
- Strong fit for our core values.
- Excellent oral communication and presentation skills, with sufficiently developed English Language skills to deliver Undergraduate and Postgraduate education.
- Sustained record of publication of internationally recognised research outputs, with demonstrable impact on leading researchers and the research agenda in one or more of the following Intelligent Systems and Robotics areas: cognitive robotics, cobotics, intelligent autonomous systems, distributed embedded intelligence, or intelligent sensor systems.
- Sustained record of earning research income as Principal Investigator.
- Recognised internationally in cognitive robotics, cobotics, intelligent autonomous systems, distributed embedded intelligence, or intelligent sensor systems.
- Evidence of active international research collaboration or participation in international research networks.
- Evidence of successful, sustained post-graduate student and post-doctoral staff supervision.
- Evidence of excellent standard of teaching performance as judged by evaluation methods including student feedback and peer-review.
- Evidence of development of new approaches to lead innovation in the development or modernisation of the curriculum.
- Evidence of research leadership at international level in the wider research community with demonstrable impact on the strategic direction of research.
- Evidence of providing leadership, line management and mentoring to staff.
- Sustained record of success in knowledge creation and transfer.
- Evidence of social engagement and outreach activities.

DESIRABLE CRITERIA:

- Senior Membership of learned societies such as IEEE, ACM, IET, BCS, AAAI.
- PGCHET or equivalent teaching qualification or membership of professional teaching body e.g. HEA.
- Major paper awards and prizes from leading journals or conferences in cognitive robotics, cobotics, intelligent autonomous systems, distributed embedded intelligence, or intelligent sensor systems.
- Significant contribution to major funded research initiatives such as EPSRC Programme, Platform, CDT grants, ERC grants or international equivalent.
- Successful coordination of major research consortia based in the UK, EU, or internationally.
- Recipient of teaching prizes or awards.
- Evidence of successfully setting and then delivering on a strategic vision in an educational or an R&D context.
- Senior academic roles at departmental level (e.g. Director of Research, Director of Education, Head/Chair) or at the Faculty or University level.
- Evidence of successful influence on governmental or professional body policy and practice in an area relative to discipline.