

JOB DESCRIPTION

Vacancy reference:	SRF34345
Post Title:	Associate Professor in Computer Science (Teaching and Research)
Grade:	Grade 8
School/Department:	Department of Computer Science School of Mathematical, Physical and Computational Sciences
Reports to:	Head of Department
Responsible for:	na

Purpose

To provide high quality teaching and contribute to the development, delivery, enhancement and administration of programmes and modules in the Department of Computer Science and develop scholarship or research that will enhance the reputation of the Department of Computer Science.

Main duties and responsibilities

The staff to be appointed will contribute to the development of teaching and research activities in Computer Science within the Department of Computer Science in one of these two areas:

- Artificial Intelligence, Machine Learning, Data Science, or
- Parallel and Distributed Computing, Big Data and Computational Science.

The post holder will be expected to perform a combination of teaching, research, scholarship and administration as agreed with the Head of Department, including:

- contribute to the development, delivery, enhancement and administration of undergraduate and postgraduate teaching in the Department of Computer Science:
- build and sustain an internationally excellent programme of research in Computer Science, including high quality research outputs and appropriate research funding:
- supervise research staff and PhD students:
- contribute to research impact and associated external links:
- developing and enhance collaborations between Computer Science and the wider School and University:
- developing and enhance collaborations between Computer Science and employers of CS graduates and/or industrial partners for research:
- supervise undergraduate and postgraduate student projects:
- support and encourage students' academic, personal and professional development, particularly through the personal tutor role:
- contribute at an appropriate level to administrative tasks as required to support the core work of the department.

The balance and specifics of duties and responsibilities will be assigned/agreed by the Head of Department (as delegated by the Head of School), typically on a year-to-year basis. Staff employed on

a "Teaching & Research" basis are typically expected to contribute to teaching and administration, and develop research activity of at least internationally excellent standing.

Supervision received

The post receives supervision from the Head of Department and, if appropriate, a mentor who is a senior member of academic staff.

Supervision given

The appointment does not include initial responsibility for the supervision and mentoring of other staff.

Contact

The role requires regular contact with other members of staff, as well as with students.

Terms and conditions

This post is on a Teaching and Research, full-time and permanent contract.

There are no specified hours of work, but you will be required to work such hours as are necessary to carry out duties associated with the post. Overtime is not payable. This document outlines the duties required for the time being of the post to indicate the level of responsibility. It is not a comprehensive or exhaustive list and the line manager may vary duties from time to time which do not change the general character of the job or the level of responsibility entailed.

Date assessed: February 2021

PERSON SPECIFICATION

Job Title	School/Department
Associate Professor in Computer Science (Teaching and Research)	School of Mathematical, Physical and Computational Sciences

Criteria	Essential	Desirable
Skills Required	<ul style="list-style-type: none"> • Ability to teach a range of topics in Computer Science at undergraduate level • Ability to supervise undergraduate and postgraduate student project work • Ability to carry out high quality teaching to large and small groups • Ability to develop own teaching materials and approaches to teaching • Outstanding research skills and an ability to advance research at an internationally excellent level in one of these two areas: (1) Artificial Intelligence, Machine Learning, Data Science, or (2) Parallel and Distributed Computing, Big Data and Computational Science. • Ability to publish in highly ranked journals in Computer Science • Ability to supervise PhD project work • Excellent interpersonal and communication skills 	<ul style="list-style-type: none"> • Ability to teach in specialist sub-fields in Computer Science at postgraduate level. • Ability to communicate effectively and to inspire a non-specialist audience
Attainment	<ul style="list-style-type: none"> • PhD in Computer Science or a related field • A strong track record of high quality publications in Computer Science journals (top SCImago quartile for Computer Science) • A strong external research reputation, appropriate to career stage, as evidenced by associated indicators of esteem (organisation of 	<ul style="list-style-type: none"> • Fellowship status of the Higher Education Academy (FHEA/SFHEA/PFHEA). • Membership of Professional Societies, e.g. IEEE, ACM, BCS.

	international conferences, keynote presentations, journal associate editor, etc.)	
Knowledge	<ul style="list-style-type: none"> • Broad knowledge of the discipline of Computer Science • Excellent knowledge of broad areas of Computer Science and the ability to contribute to teaching at undergraduate and postgraduate levels in Computer Science. • Excellent knowledge of some core areas of Computer Science at a research level 	<ul style="list-style-type: none"> • An understanding of pedagogic principles and learning and design of computer programming languages • An understanding of equality and diversity issues in HE
Relevant Experience	<ul style="list-style-type: none"> • Experience of teaching Computer Science at undergraduate level • Experience of supervising undergraduate project students • Research experience at an internationally excellent level in relevant fields of Computer Science • Track record of publications in highly ranked conferences and journals in Computer Science 	<ul style="list-style-type: none"> • Teaching Computer Science at postgraduate level • Experience of supervising postgraduate project students • Experience of supervising postgraduate research students • Experience supervising postdoctoral research staff • Experience of building industry links in teaching and/or research
Disposition	<ul style="list-style-type: none"> • Dedication to high quality teaching and learning • Evidence of commitment to high quality research in Computer Science. • Commitment to undertaking administrative duties • Collegiate attitude • Flexible and adaptable approach to work • Enthusiasm for establishing collaborations with new colleagues • Willingness to work supportively with students 	

Completed by: Giuseppe Di Fatta and Ben Cosh

Date: 26 February 2021

