



RESEARCH INSTITUTE FOR FLUID AND COMPLEX SYSTEMS JOB DESCRIPTION & PERSON SPECIFICATION

Job Information

Post Title: Associate Professor (Research)
Grade: 9
Salary: £57,696 - £71,469 per annum
Mode: Full time/permanent
Ref No: 903

Job Purpose

Perform research in statistical physics, fluid mechanics and nonequilibrium systems in the Centre for Fluid and Complex Systems (FCS), Coventry University.

(<https://www.coventry.ac.uk/research/areas-of-research/centre-for-fluid-and-complex-systems/>).

The posts are specifically intended to grow the centre's expertise in its research groups:

- 1) The nonequilibrium in environment and engineering systems (NEES) research group
- 2) The statistical Physics research group
- 3) The fluids research group

Teach (up 40%) in undergraduate and postgraduate level. We offer undergraduate degrees in mathematics, mathematics and statistics, physics and mathematics, physics, and data science; our postgraduate courses include data science & computational intelligence and data science.

As senior members of FCS you will be expected to lead on strategic activities of the centre, including amongst others, impact generation, outreach, industrial collaborations or others.

For more information on the centres research please [click here](#).

Duties and Responsibilities

Research

1. Commission, deliver and lead impactful research in research area.
2. Work with the Head of Group/Theme to provide leadership in the research activity
or
Develop and lead an independent research group in research area.
3. Lead major funding bids and seek and secure external research funding for major research projects and programmes. Meet discipline-specific external funding targets for larger research projects as Principal Investigator.
4. Supervise early career researchers, technical and other support staff engaged in research.

5. Act as Director of Studies to PGR students and act as an internal assessor for PGR progress reviews and PhD examinations.
6. Provide academic leadership to others, by, for example, coordinating resources, setting objectives, planning and organising work to deliver effectively. Contribute to the achievement and development of others through institutional processes (e.g. Peer Assessment, Recruitment, Performance Review, Coaching and Mentoring)
7. Take the lead in promoting and disseminating research outputs in a range of media relevant to the field. e.g. leading research journals, books, monographs external reports, exhibitions, performances.
8. Attend and present research at relevant international academic and professional conferences. Give invited lectures, chair sessions and sit on conference organising committees.
9. Engage in external academic activities which enhance the local/national/international research reputation of the Research Centre and University. Including membership and leadership of committees of academic/professional bodies, external examining, journal editorships and other research related activities.
10. Develop a reputation both internally, nationally and globally as a leading authority in research area. Represent the University and its research externally and enhance the University's reputation. Form and maintain specialist networks for the benefit of the University and its research.
11. Take a leading role in supporting and developing the Research Centre's research strategy. This includes providing such information as may be required by the Centre to monitor the progress of each member of staff's research programme and to support the Centre and University fully in the preparation of material required for activities such as the Research Excellence Framework (REF).
12. Contribute to the research impact agenda, producing research with a demonstrable contribution to society and the economy through activities such as developing relationships and partnerships externally (industry/business/third sector organisation/NHS as appropriate), contributing to policy development and change or public outreach. This may include activities such as delivering collaborative research and development, contract research, consultancy or executive education/continuing professional development.
13. Take the lead on and generate income from activities such as collaborative research and development, contract research, consultancy and executive education/continuing professional development.
14. Be cognisant of the potential commercial value of research and, where appropriate and with the assistance of the University's Enterprise and Innovation Office, take appropriate action to ensure that intellectual property rights are protected and exploited.
15. Play an active role in leading the research culture and environment by working collaboratively with research staff and students across the university, contributing to research centre and university initiatives, and mentoring early career researchers. In particular support and facilitate the Academic Support Programme in Research Excellence (ASPiRE) and ASPiRE+ programme.

Teaching

16. Teach and supervise undergraduate and postgraduate students in Teaching Unit and Research Centre.
17. To contribute to teaching and learning across the University Group by taking responsibility for the development and delivery of teaching, learning and assessment. This can include substantial responsibility for the design, enhancement and organisation of teaching and learning, for curriculum development, or for the student experience more broadly.

18. To demonstrate innovative approaches to teaching and support for students through the use of a wide range of learning resources and appropriate pedagogic practice.
19. To ensure that the teaching is informed by contemporary research in the relevant field and develops the ability of students to engage in debate, critical discourse and rational thinking.
20. Grow research enriched learning by developing suitable teaching resources and ensuring that students are exposed to the Research Centre's activity.
21. To ensure that students have an effective learning experience by providing high quality academic guidance and advice, which enhances their employability.
22. To reflect critically on teaching practice, implement improvements, disseminate good practice effectively to others, contribute to quality monitoring and enhancement and to professional accreditation processes as required.
23. Work with colleagues in Teaching Unit with respect to the continuous review and development of the curriculum.
24. Undertake other academic duties in the Teaching Unit including but not limited to assessment, marking, and exam invigilation.

Administration and Other Activities

25. Support the Centre director in the leadership of the centre.
26. Undertake any specific roles and management functions that may be required by the Research Centre Director.
27. Attend meetings, committees and working groups within the Centre, Teaching Unit and the University.
28. Engage in continuous professional development.

AND such other duties as are within the scope of the spirit of the job purpose, the title of the post and its grading.

PERSON SPECIFICATION – ASSOCIATE PROFESSOR

The Person Specification focuses on the knowledge, skills, experience and qualifications required to undertake the role effectively. This is measured by (a) Application Form, (b) Test/Exercise, (c) Interview, (d) Presentation.

ATTRIBUTES	ESSENTIAL	ADVANTAGEOUS
<i>Education/ Qualifications</i>	A PhD or equivalent in a relevant area (or relevant discipline) (a)	
<i>Experience</i>	<p>Internationally leading research profile in line with discipline norms that fits with the priorities of the Research Centre and with the research focus of one of its themes/groups/clusters. (a)</p> <p>Sustained record of producing internationally recognised research outputs and a pipeline of such outputs (a).</p> <p>A track record of generating, and successfully delivering, externally funded grants, and contracts to support research. (a,c)</p> <p>A track record of establishing networks relevant to the Research Centres' strategy and operations. (a, c)</p> <p>A track record informing and influencing (industry/business/health service/policy makers) (a,c)</p> <p>Experience of successfully supervising Doctoral Students. (a,c)</p> <p>Evidence of successful teaching practice as documented by relevant quality assurance mechanisms (a,c)</p>	<p>Experience of leading curriculum development in an institution of Higher Education. (a, c)</p> <p>Experience of interdisciplinary research (a, c)</p> <p>Experience of generating income from non-research activities, such as Executive Education, CPD activities, consultancy. (a, c)</p>
<i>Job-related skills/ Aptitudes</i>	<p>The ability to collaborate with other researchers, within and external to the University. (a,c)</p> <p>Evidence of active contribution to institutional research culture and environment. (a,c)</p>	

	<p>Excellent interpersonal, communication and presentation skills. (a,c)</p> <p>Ability to manage and mentor early career researchers. (a,c)</p> <p>Demonstrated willingness to participate in university wide research initiatives (a,c)</p> <p>Ability to inspire and enthuse undergraduate and postgraduate students in research (a,c,d)</p>	
<i>Other Requirements</i>	<p>Willingness to undertake activities in the evening when necessary, and participate in occasional weekend activities</p> <p>Willingness to travel to other organisations both within UK and abroad.</p> <p>Able to take responsibility for developing own career in partnership with the University.</p>	