RESEARCH CENTRE FOR MANUFACTURING AND MATERIALS

JOB DESCRIPTION & PERSON SPECIFICATION

1. JOB INFORMATION

Post Title:	**Assistant Professor**
Grade:	**8**
Salary:	**Competitive starting salary range from £46,049 up to £51,753 per annum (dependent upon experience) with the potential to progress. A discretionary range for candidates with exceptional experience can be discussed/considered**
Mode:	**Full Time, Permanent**
Ref:	**3784**

2. JOB DESCRIPTION

.1 Job Purpose

Develop and deliver internationally recognised research in Digital Manufacturing within Coventry University's Centre for Manufacturing and Materials. Investigate how connected data, computational models and intelligent manufacturing technologies can improve the design, operation and environmental performance of manufacturing processes and systems.

Develop an independent research profile within the Centre's collaborative environment, contribute to external funding proposals and deliver research with academic and industrial partners. Translate research into validated methods and demonstrators that address practical manufacturing challenges.

Undertake teaching and associated educational responsibilities, comprising up to 40% of the role, in relevant undergraduate and postgraduate provision. Connect digital engineering methods with practical manufacturing applications through teaching, supervision and industry-informed student projects..

As part of this role and in support of your development, you will be automatically enrolled and required to participate in the University's development programme which takes up to 5 years to complete.

.2 Duties and Responsibilities

Research

1. Commission and deliver impactful research in research area.
2. Work with the Head of Group/Theme to grow the research activity in research area

   or

   Develop and lead independent research group in appropriate research area.
3. Identify and obtain significant levels of external funding through research grants or contracts to support your research
4. Supervise research fellows/assistants, Doctoral students, Masters students, technical and other support staff engaged in research.
5. Publish research outcomes in leading peer reviewed journals relevant to the field

or

Produce world leading research outputs in a form relevant to the field.

6. Attend and present research at relevant international academic and professional conferences.

7. Engage in external academic activities which enhance the local/national/international research reputation of the Research Centre and University. Including membership of committees of academic/professional bodies, external examining, journal editorships and other research related activities.

8. Contribute to 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).

9. 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.

10. 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.

11. Play an active role in supporting 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 junior staff and students. In particular support and facilitate the Academic Support Programme in Research Excellence (ASPiRE) progamme.

Teaching

12. Teach and supervise undergraduate and postgraduate students in Teaching Unit and Research Centre.

13. To contribute to teaching and learning across the University Group by taking responsibility for the development and delivery of teaching, learning and assessment and student supervision. 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.

14. To demonstrate innovative approaches to teaching and support for students through the use of a wide range of learning resources and appropriate pedagogic practice.

15. To ensure that students have an effective learning experience by providing high quality academic guidance and advice, which enhances their employability.

16. 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.

17. Grow research enriched learning by developing suitable teaching resources and ensuring that students are exposed to the Research Centre's activity.

18. Work with colleagues in Teaching Unit with respect to the continuous review and development of the curriculum.

19. Undertake other academic duties in the Teaching Unit including but not limited to assessment, marking, and exam invigilation.

Administration and Other Activities

20. Attend meetings, committees and working groups within the Centre, Teaching Unit and the University.
21. Undertake any specific roles and management functions that may be required by the Research Centre Director.
22. 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.

3. PERSON SPECIFICATION – ASSISTANT 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
Education/ Qualifications	A PhD or equivalent in manufacturing engineering, mechanical engineering, automation and control, computer science, industrial engineering, or a closely related discipline, with research relevant to manufacturing. (a)	
Experience	Internationally recognised 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) Outstanding record of producing internationally recognised research outputs and a pipeline of such outputs (a) The ability to seek research funding and to deliver research projects (a, c) The ability to establish networks relevant to the Research Centres' strategy and operations. (a, c) The ability to inform and influence (industry/business/health service/policy makers) (a,c) Research supervision experience at postgraduate level (a,c) Evidence of successful teaching practice as documented by relevant quality assurance mechanisms (a'c)	A track record of generating external funding (grants, contracts etc) to support research. (a) Interest in interdisciplinary research (a, c)
Job-related skills/ Aptitudes	The ability to collaborate with other researchers, within and external to the University. (a,c)	Ability to inspire and enthuse undergraduate and postgraduate students. (a,c,d)

	Excellent interpersonal, communication and presentation skills. (a,c,d) Willingness to participate in university wide research initiatives (a,c)	
Other Requirements	Willingness to undertake activities in the evening when necessary, and participate in occasional weekend activities Willingness to travel to other organisations both within UK and abroad. Able to take responsibility for developing own career in partnership with the University.	