THE UNIVERSITY OF MANCHESTER

PARTICULARS OF APPOINTMENT

FACULTY OF SCIENCE & ENGINEERING

SCHOOL OF NATURAL SCIENCES

DEPARTMENT OF MATERIALS

RESEARCH ASSOCIATE IN APPAREL DESIGN ENGINEERING

VACANCY REF: SAE-025529

Salary:	Grade 6: £36,024-£44,263 per annum depending on relevant experience
Hours:	Full Time (1 FTE)
Duration:	Fixed Term For 6 Months
Location:	Oxford Road, Manchester

Enquiries about the vacancy, shortlisting and interviews:
Name: Dr Kristina Brubacher
Email: kristina.brubacher@manchester.ac.uk

Background & Overall Purpose of the Job
The Apparel Design Engineering (ADE) group plays a pivotal role in the global network of research in the field of apparel engineering and has established itself as a leading authority in the field of 3D body scanning and pattern engineering, functional clothing development and apparel manufacturing. With collaboration and interdisciplinarity at its core, the group provides a supportive and innovative research environment for postgraduate researchers.

The purpose of this post is to provide essential support to the ADE group during Dr Brubacher's maternity leave. The successful applicant will play an important role in supporting Dr Brubacher's ongoing interdisciplinary research activities and collaborations, including projects on the engineering of sports compression garments and inclusive clothing design. The designated tasks for this role involve a range of research responsibilities including data collection and analysis, supporting grant applications, involvement in PhD supervision, writing academic papers, ongoing cultivation of current collaborations (with external academics and industry), and the facilitation of day-to-day research support operations within the ADE group's specialist laboratories (3D body scan laboratory, garment technology laboratory).

Key Responsibilities, Accountabilities or Duties
- Work with internal and external collaborators of the Apparel Design Engineering group.
- Conduct individual and collaborative research projects.

- Write up research work for publication.
- Be involved in the supervision of student projects.
- Deal with routine communication using a range of media.
- Communicate complex information, orally, in writing and electronically.
- Collaborate with academic colleagues on areas of shared research interest.
- Attend and contribute to relevant meetings.
- Use new research techniques and methods.
- Use creativity to analyse and interpret research data and draw conclusions on the outcomes.
- Use research resources, laboratories and workshops as appropriate.
- Plan and manage own research activity in collaboration with others.
- Be aware of the risks in the work environment and their potential impact on their own work and that of others.

PERSON SPECIFICATION

The successful applicant will:

- Have, or be about to obtain (thesis submitted), a PhD in apparel technology/engineering or a relevant discipline
- Have research experience in clothing product development, pattern engineering and anthropometric data analysis
- Desirable: have experience in the use of CAD software and coding
- Demonstrate the ability to work independently and as part of a team
- Have an emerging publication record
- Have excellent communication and interpersonal skills
- Have excellent time management and organisational skills

Education

Essential:

- Have, or be about to obtain, a PhD in apparel technology/engineering or a relevant discipline

Skills

Essential:

- Proven research skills
- Ability to analyse and write up data for publication
- Effective written and verbal communication skills

Desirable:

- Ability to present complex information effectively to a range of audiences
- Strong publication record

Experience

Essential:

- Working in a research environment
- Working knowledge of clothing product development, pattern engineering and anthropometric data analysis

Desirable:

- Have experience in the use of CAD software and coding

Personal Qualities and Abilities

Essential:

- Excellent communication and interpersonal skills
- Experience of working as a member of a team/project
- Excellent time management and organisational skills
- Experience of writing up material for publications
- Experience of oral presentation of material, ideally at conferences
- Willingness to learn and to develop

Desirable:

- Supervision of undergraduate and postgraduate researchers

Further background information:

The University of Manchester
The University of Manchester, in its present form, was created in 2004 by bringing together The Victoria University of Manchester (created 1824) and UMIST. Twenty-five Nobel Prize winners have either studied or conducted some of their work here: Rutherford began his work on splitting the atom here and the world's first modern computer also came into being at The Victoria University of Manchester. Professors Andre Geim and Konstantin Novoselov were awarded the Nobel Prize for Physics in 2010.

The President and Vice-Chancellor of The University of Manchester, Professor Dame Nancy Rothwell, led a bold and exciting plan - the Manchester 2020 Agenda, which aimed to make The University of Manchester one of the top 25 universities in the world. The plan identifies three goals: Research; Outstanding Learning and Student Experience and Social Responsibility. The University of Manchester strives to make our community a welcoming, caring and enthusiastic one, fuelling ambition with opportunities and support to help us all achieve our personal and professional goals.

The University offers a range of support for new staff a great employment package that includes good terms & conditions and pension schemes, flexibility in approach, family friendly initiatives, development opportunities and services to support your health & wellbeing. In addition, there is a host of other staff benefits and excellent campus facilities. We care deeply about career and personal development, offering a structured induction programme for new staff, an annual performance and development review, staff training for all career stages and mentoring opportunities to support your career development.

As a global institution, situated at the heart of a lively, culturally diverse city, we welcome applicants of all nationalities. To help international job applicants plan for life in the UK, we have put together some useful information on passports and visas, travel to the UK, accommodation and a number of other practical considerations.

Equality and Diversity
We have a genuine commitment to equality of opportunity for our staff and students and are proud to employ a workforce that reflects the diverse community we serve. One of our guiding principles and values, as set out in Manchester 2020: The University of Manchester's Strategic Plan, affirms our commitment to being: "an accessible organisation, committed to advancing equality and diversity". Championing equality and diversity in all our activities, including staff employment and advancement, also forms part of our commitment to our strategic Goal Three: social responsibility.

Faculty of Science and Engineering
The Faculty of Science and Engineering is one of the largest in the UK with over 10,000 students, 2,000 staff and strategic links with over 300 industrial companies. We are leading research efforts in energy, nuclear science and technology, computer science, atmospheric science, bioscience and biotechnology, photon science and photonic materials, imaging and visualisation, security, and advanced materials, attracting an annual income of over £200 million. Founded in 1824, we have a history of breaking new ground in science and engineering. Rutherford began his work here on splitting the atom and later received the Nobel prize in 1908 for his work on radioactivity. The ‘Baby’, the world’s first stored-program computer, and Manchester Mark 1 came into being here. It is the birthplace of Chemical Engineering. The

world’s first steerable radio telescope at Jodrell Bank was built here by Bernard Lovell. Since 1906, when former student Joseph Thomson won the Nobel prize for physics, the University has produced more than 20 Nobel Laureates, the most recent of which were Professor Andre Geim and Professor Konstantin Novoselov in 2010 - for their pioneering work with the world’s thinnest material, graphene.

School of Natural Sciences

The School of Natural Sciences contains five departments: Chemistry, Earth and Environmental Sciences, Materials, Mathematics and Physics & Astronomy and nearly 500 permanent academic staff. The School delivers world-class teaching to students and was awarded hundreds of millions of pounds of research funding in 2020/21, making it one of the largest and most successful academic centres in the world for scientific research and teaching.