

JOB DESCRIPTION AND PERSON SPECIFICATION

Job Title: Postdoctoral Research Fellow – Materializing Data, Embodying Climate Change (3D Modeller)

Accountable to: Principal Investigator (PI) – Materializing Data, Embodying Climate Change

Contract Length: Fixed-Term for 34 Months

Hours per week: Full-time

Weeks per year: 52

Salary: £38,010 - £45,603 p.a.

Grade: 5

College: Central Saint Martins

Location: Granary Building, 1 Granary Square, London N1C 4AA

Purpose of Role:

To support the Principal Investigator (PI) Professor Corby and Co-Investigators (Co-Is) of the AHRC-funded project *Materializing Data, Embodying Climate Change* in the fulfilment of project deliverables and to independently research, produce, collate and document key project outcomes to facilitate its effective and efficient delivery. You will be responsible for producing, manufacturing and fabricating physical artefact deliverables derived from climate and environmental data resources by using a range of established craft model-making and modern additive/subtractive prototyping approaches, such as 3D printing and CNC milling. You will work closely with a Postdoctoral Research Fellow programmer who will produce software and data resources within the project's production pipeline, and will have responsibility for academic reporting and documentation of research (conference papers, journal articles and other outputs), in collaboration with the PI and other core staff.

Duties and Responsibilities

- To support and participate in collaborative research with the PI, Co-Is and the rest of the project team
- To undertake original research towards the production of climate data in physical forms, and new artefacts, representations and expressions of climate change, beyond current digital visualisations, graphs and interfaces
- To expand existing research in the field of art-science collaborations concerned with developing cultural and imaginative responses to climate change
- To contribute to the outcomes of the project through involvement in the preparation and presentation of papers at conferences, exhibitions, contributions to refereed journals, and the editing and/or authoring of book chapters, where appropriate
- To promote the project through participation in public events, if appropriate, via social media and the project's web presence
- To disseminate the research findings through the project's web presence, conferences, public lectures, events and articles published in relevant journals or e-publications, as appropriate
- To produce content towards a publication, edited collection or other public output, as appropriate
- To work closely and collaboratively with the project team, UAL staff as well as partner organisations by regularly liaising with relevant stakeholders to ensure the smooth running of the project
- Lead on and support any additional tasks or documentation as required by the project
- To undertake health and safety duties and responsibilities appropriate to the role
- To perform such duties consistent with your role as may from time to time be assigned to you anywhere within the University
- To work in accordance with the University's Equal Opportunities Policy and the Staff Charter, promoting equality and diversity in your work
- To undertake continuous personal and professional development, and to support it for any staff you manage through effective use of the University's Planning, Review and Appraisal scheme and staff development opportunities

- To make full use of all information and communication technologies in adherence to data protection policies to meet the requirements of the role and to promote organisational effectiveness
- To conduct all financial matters associated with the role in accordance with the University's policies and procedures, as laid down in the Financial Regulations
- To personally contribute towards reducing the university's impact on the environment and support actions associated with the UAL Sustainability Manifesto (2016-2022)

Key Working Relationships:

- Principal Investigator
- Co-Investigators
- Specialist Researcher in Arts-Science
- Postdoctoral Research Fellow (Software Programmer)
- Project Partners
- UAL Research Management and Administration (RMA)

Specific Management Responsibilities

Budgets: None

Staff: None

Other (e.g. accommodation; equipment): None

Signed _____ Date of last review _____
(Recruiting Manager)

Job Title: Postdoctoral Research Assistant – Materializing Data, Embodying Climate Change Grade: 5

Person Specification

Specialist Knowledge/ Qualifications	<p>Essential:</p> <p>Relevant postgraduate qualification in fields such as architecture, design, art or industrial manufacturing</p> <p>Good working knowledge of bridging digital and analogue processes in the complex assembly of experimental artefacts, structures and objects</p> <p>Good working knowledge of complex project realisation skills from ideation to production</p> <p>Good working knowledge of production of 3D models for physical output</p> <p>Knowledge and skill in the use of range of additive and subtractive digital fabrication technologies for model output, including, but not limited to: 3D printing, CNC and manual machining, laser cutting etc.</p> <p>Good working knowledge and skill in rapid-prototyping processes with a wide range of materials</p> <p>Good working knowledge of an array of CAD and CAM software, including, but not limited to: Solidworks, Inventor, Rhino, Grasshopper, Fusion 360 or equivalents</p> <p>Knowledge of 2D drafting and drawing for idea development</p> <p>Good working knowledge of interpretation of mechanical drawings, plans and 3D CAD models based on verbal or written instructions</p> <p>Craft ability in traditional model-making approaches and materials, including timber, joinery, card, steel etc.</p> <p>Good working knowledge of traditional machining technologies: hand tools, lathe, press, power tools etc.</p> <p>Desirable:</p> <p>A PhD in architecture, design, art, industrial manufacturing or similar</p> <p>Good working knowledge of programming for fabrication and design processes</p>
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Relevant Experience	<p>Essential:</p> <p>Experience of working in idea-driven, research, creative and/or studio environments with teams of collaborators</p> <p>Desirable:</p> <p>Experience of working in interdisciplinary arts/scientific/technological research environments and/or studios</p> <p>Experience of working with data towards physical outputs</p> <p>Experience of producing and installing artefacts for public exhibition and display at a range of scales and materials</p>
Communication Skills	Communicates effectively orally and in writing by adapting the message for a diverse audience in an inclusive and accessible way
Leadership and Management	Proven ability as an operational task leader, assessing and to ensuring appropriate resources and support are available to enable the team and individual members to achieve their objectives
Research, Teaching and Learning	<p>Applies innovative approaches in teaching, research or professional practice to support excellent teaching, pedagogy and inclusivity</p> <p>Applies own research to develop learning and assessment practice</p>
Professional Practice	Contributes to advancing professional practice, research or scholarly activity in own area of specialism
Planning and managing resources	Plans, prioritises and manages resources effectively to achieve long-term objectives
Teamwork	Works collaboratively in a team and, where appropriate, across or with different professional groups
Student experience or customer service	Builds and maintains positive relationships with students or customers

Creativity, Innovation and Problem
Solving

Suggests practical solutions to new or unique problems

Skill in creative and technical problem-solving