JOB DESCRIPTION
Vacancy Ref: A2903T

Job Title: Senior Research Associate - Chatty Factories	**Present Grade:** 7P

Department/College:　Lancaster Institute for the Contemporary Arts (Design)

Directly responsible to:　　　Dr Daniel Richards

Supervisory responsibility for: None

Other contacts

Internal: Colleagues and students in ImaginationLancaster, Lancaster Institute for the Contemporary Arts and the Faculty of Arts and Social Sciences, and the Data Science Institute together with colleagues in other faculties, Research Support Office and other relevant university actors.

External: Partners and stakeholders in the Chatty Factories project, the EPSRC, professional bodies, employers, business organisations, local and UK government organisations, academic and research networks.

Major Duties:

The overarching goal of this project is to explore application of digital-twinning techniques to enhance product design processes. The specific focus of this role is on exploring and iteratively prototyping digital tools that can support designers at Atherton Bikes to leverage various forms of telemetry data to better understand downhill racing bikes in use, and to identify specific opportunities for design improvements.

In this role, you will be working closely with collegues at Edinburgh and Cardiff Universities and the Design team at Atherton Bikes to develop and evaluate digital tools and disseminate findings in the form of research papers.

The major duties of this senior research associate are:

1. To work with research associates at the partner instituions and academic staff to design, prototype and evaluate digital tools that visualize telemetry data in relation to CAD designs and allow designers to make informed decisions about design improvements.
2. To work with other research associates to incorporate user/study feedback, feedback from project partners / advisory board and other evaluation activities to fuel an iterative design cycle.
3. To develop and write high-quality conference and journal articles suitable for submission in appropriate conferences and journals.
4. To participate in Chatty Factories project meetings as well as meetings with external partners. Tasks to include preparation and presentation of talks, writing of reports, and active participation in discussions.