ROLE PROFILE

Job Title: User Experience Researcher - KTP Research Associate

Theme: Haptics for in-vehicle user-interfaces

School/Department: Faculty of Engineering & Ultrahaptics Limited

Job Family and Level: Knowledge Transfer Partnership (KTP)

Contract Status: Fixed-term for a period of 18 months

Hours of Work: Full-time

Location: Ultrahaptics Limited, Bristol, BS2 0EL

Job purpose:
To develop design-relevant resources for Ultrahaptics customers in the automotive sector. These resources will be tested, validated, and realised in prototype demonstrators of in-vehicle infotainment interfaces that are user-friendly, efficient, and safe to operate while driving.

Duties and responsibilities:
There is a full 18-month project plan detailing the work to be undertaken throughout the KTP. The key stages of the project are:
- Develop and test mid-air haptic gestures for in-car systems
- Refine and validate design guidelines for haptic gestural interfaces
- Prototype development and on-the-road tests
- Reporting, Dissemination and Exploitation

Special Conditions:
Whilst the position will be based at Ultrahaptics Limited’s office in Bristol, the project will require you to spend periods of time working at the University of Nottingham using the labs and facilities for testing. You should therefore be able to travel and be prepared to stay overnight in Nottingham for periods of up to two weeks. You will also will work closely with the company's clients, which may necessitate travel.

There is a training budget available for personal and professional training to support and develop your skillset.

Knowledge, Skills, Qualifications & Experience

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<th>Qualifications/ Education</th>
<th>Essential</th>
<th>Desirable</th>
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<tr>
<td>PhD (or be near completion, i.e. writing up) in Human Factors/Ergonomics, HCI, or relevant area of Psychology</td>
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<td>PhD with a topic in area of Automotive Human Factors/driver behavior</td>
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<td>Publications of papers in area of Automotive Human Factors/driver behavior</td>
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<td>Have experience of independent working, with a positive attitude towards collaboration and interdisciplinary working</td>
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<td>Have relevant industry experience (including work placements)</td>
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<th>Experience</th>
<th>General Skills and Abilities</th>
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<td>Have an excellent command of the English language with written and verbal communication that is clear and easy to understand</td>
<td>Have an awareness and understanding of commercial drivers</td>
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<tr>
<td>Technical Skills and Knowledge</td>
<td>Training</td>
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| • Be able to clearly communicate complex information  
• Be able to build strong alliances with colleagues and stakeholders and engage effectively with personnel in a wide range of roles, including engineering and production staff  
• Be self-starting and pro-active, and have the ability to work in a team to meet deadlines and to prioritise tasks  
• Be enthusiastic and self-motivated with the drive to embed new knowledge and take full ownership of the project and the results  
• Have the ability to plan a project, execute the plan and make adjustments according to delays and technical issues  
• Have computer programming skills in C# and/or Unity 3D  
• Have data analysis skills and knowledge of relevant software  
• Have experience in the use of research methodologies and techniques (qualitative and quantitative) for Human Factors study | • Have a commitment to continuing professional development  
• Be willing to undertake appropriate further training and to adopt new procedures as and when required |

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<th>Other</th>
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| • Have the ability to undertake multidisciplinary research and translate understanding in the subject area for commercial delivery  
• Have some practical experience in the use of simulation and eye tracking in the context of driver behaviour research  
• Have experience with LeapMotion and/or gesture interfaces | • Be willing to travel  
• Be able to make suitable arrangements for personal business travel  
• Have a commitment to observing Equality & Diversity policies at all times  
• Be committed to maintain confidentiality at all times |

The University of Nottingham strongly endorses Athena SWAN principles, with commitment from all levels of the organisation in furthering women’s careers. It is our mission to ensure equal opportunity, best working practices and fair policies for all.