

<b>Department</b>	School of Computing
<b>Supervisors</b>	Dr John McGowan
<b>Project Title</b>	Multimodal Applications for Cognitive Differences
<p><b>PROJECT DESCRIPTION</b></p> <p>Previous studies have demonstrated physiological as well as psychological benefits of interactive multimodal systems through listening to and making music, the use of voice, or gestural interactions. Further development of accessible applications for people with cognitive differences could encourage shared experiences with friends and family, increasing their effective therapeutic capabilities, whilst helping to manage stress. This PhD project will employ a User Experience and Interaction Design approach to investigate, develop, and evaluate shared interactive multi-modal applications, including vocalisation and gestural parameters. This work aims to build on the expertise of staff at ENU School of Computing.</p> <p>Perspective applicants are encouraged to contact the Supervisor before submitting their applications. Applications should make it clear the project you are applying for and the name of the supervisors.</p> <p><b>Academic qualifications</b> A first degree (at least a 2.1) ideally in Computer Science with a good fundamental knowledge of Interaction Design.</p> <p><b>English language requirement</b> IELTS score must be at least 6.5 (with not less than 6.0 in each of the four components). Other, equivalent qualifications will be accepted. <a href="#">Full details of the University's policy</a> are available online.</p> <p><b>Essential attributes:</b></p> <ul style="list-style-type: none"> <li>• Experience of fundamental computing</li> <li>• Competent in Audio-Visual Interaction Design and User Experience</li> <li>• Knowledge of working with groups with additional support needs</li> <li>• Good written and oral communication skills</li> <li>• Strong motivation, with evidence of independent research skills relevant to the project</li> <li>• Good time management</li> </ul> <p><b>Desirable attributes:</b> Knowledge of Game Engine technology, knowledge of Max or Pure Data, research and teaching experience.</p>	
<b>Enquiries</b>	For informal enquiries about this PhD project, please contact <a href="mailto:j.mcgowan@napier.ac.uk">j.mcgowan@napier.ac.uk</a>
<b>Web page</b>	<a href="https://www.napier.ac.uk/research-and-innovation/research-degrees/application-process">https://www.napier.ac.uk/research-and-innovation/research-degrees/application-process</a>