

# Template for adverting PhD project on FindAPhD.com

\*\*\*Please read accompanying guidance notes\*\*\*

<b>Department</b>	School of Engineering and the Built Environment
<b>Supervisors</b>	Dr Masoud Sajjadian
<b>Funding Status</b>	Funded PhD Project (Worldwide)
<b>Application Deadline</b>	14/04/2022
<b>Project Title</b>	Framework Development for Using Image Processing in Architectural Drawings
<p><b>PROJECT DESCRIPTION</b></p> <p>Architectural technologists evaluates buildability, thermal and hygrothermal performance of design details and oversee the translation to construction details in their profession. To process drawings, human vision segments, classifies and distinguishes the drawing objects on the basis of their experience and knowledge. With rapid advancement of Artificial Intelligence methods, this PhD aims to explore the use of image processing in assessing design details' compliance with building regulations and identify anomalies by mathematical models. The outcome of this study is a production of a tool with potential to become commercially used for industry professionals.</p> <p><b>Academic qualifications</b></p> <p>A first degree (at least a 2.1) ideally in computer science with a good fundamental knowledge of image processing.</p> <p><b>English language requirement</b></p> <p>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 machine learning</li><li>• Competent in image processing</li><li>• Knowledge of computer science</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></p> <p>Applicants with postgraduate qualification and work experience in the related area</p>	
<b>Indicative Bibliography</b>	<a href="#">Click here to enter text.</a>
<b>Funding notes</b>	This project may be funded by a scholarship of the School of Engineering and Built and Environment. Please see <a href="#">School-funded PhD scholarships - RESEARCH AND INNOVATION (napier.ac.uk)</a> for information on the scholarships and how to apply for them.
<b>Enquiries</b>	For informal enquiries about this PhD project, please contact <a href="mailto:m.sajjadian@napier.ac.uk">m.sajjadian@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>

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