

# 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>	Model-Based Decision Support for Modern Insulations
<b>PROJECT DESCRIPTION</b> Greenhouse gas emission reduction in the built environment requires lower U-Values for external building envelopes, the traditional insulation types may no longer be optimum solutions for new dwellings or refurbishment of the existing homes. As such, thinner layers of modern insulation types such as Vacuum Insulated Panels (VIP), multifoil insulations, aerogels and nano insulations could be used due to their lower thermal conductivity compared to traditional ones. Further growth of such insulations in the UK markets, requires the development of a robust decision support model for industry professionals. Through dynamic thermal modelling, this PhD aims to provide such a support model to accelerate the development of modern insulations by uncovering their potentials and barriers.	
<b>Academic qualifications</b> A first degree (at least a 2.1) ideally in architecture, architectural technology or building engineering with a good fundamental knowledge of building physics.	
<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.	
<b>Essential attributes:</b> <ul style="list-style-type: none"><li>• Experience of fundamental materials and heat transfer related topics</li><li>• Competent in building simulations</li><li>• Knowledge of building physics</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>	
<b>Desirable attributes:</b> Candidate with postgraduate qualifications and relevant work experience	
<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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