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Please read accompanying guidance notes

Department	School of Engineering and the Built Environment
Supervisors	Professor Mark Deakin and Dr Temidayo Osunsanmi
Funding Status	Funded PhD Project (Worldwide)
Application Deadline	14/04/2022
Project Title	Data management model for real estate surveyors in the fourth industrial revolution era
PROJECT DESCRIPTION Effective data management, acquisition and analysis can be likened to the oxygen for real estate surveyors. However, data management has witnessed tremendous changes since the rise of the fourth industrial revolution(4IR). The 4IR supported the application of big data for real estate professionals in making decisions regarding marketing, management and valuation. Unfortunately, the size, heterogeneity and geographical dispersion of data in the 4IR era make it difficult for real estate professionals to analyse and utilise big data in a single entity. The PhD student will prepare a model that supports the real-time querying of high-frequency incoming real estate data. The model should enable real estate surveyors to make accurate decisions backed by big data in the 4IR era. The model will be supported by information theory, system theory, social identity theory and resource dependency theory. The findings emanating from the PhD would enhance the accuracy of global real estate investment.	
Academic qualifications A first degree (at least a 2.1) ideally in Real estate surveying, construction management, computer science or any releated field with a good fundamental knowledge of Information management, statistical software, Phython.	
English language requirement 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. Full details of the University's policy are available online.	
Essential attributes: <ul style="list-style-type: none">• Experience of fundamental simulation techniques• Competent in the use of statistical software• Knowledge of AMOS,SmartPLS• Good written and oral communication skills• Strong motivation, with evidence of independent research skills relevant to the project• Good time management	
Desirable attributes: Good communication skills, time management and curiosity to learn something new	
Indicative Bibliography	Real estate, information management system, Fourth industrial revolution
Funding notes	This project may be funded by a scholarship of the School of Engineering and Built and Environment. Please see School-funded PhD scholarships - RESEARCH AND INNOVATION (napier.ac.uk) for information on the scholarships and how to apply for them.
Enquiries	For informal enquiries about this PhD project, please contact Edinburgh Napier University websites

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Web page	https://www.napier.ac.uk/research-and-innovation/research-degrees/application-process
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