

Project proposal template – Faculty studentships Summer 2014

<i>Project title</i>	Tidal and other cyclical influences on radon-geophysical processes.	<i>Director of Study</i>	G.Gillmore
<i>Second Supervisor</i>	D. Wertheim	<i>School</i>	Geography, Geology ▼
<i>Other members of supervisory team</i>	R. Crockett, advisor, University of Northampton F. Perrier, advisor, ▼	<i>Any requirements from applicant (eg degree in specific subject area)</i>	
Project summary (max 1,000 characters)			
<p>This project is concerned with tidal (and other cyclical) influences on radon emissions from soils, e.g. groundwater and water-table variations, climate/weather, earthquake incidence and associated geophysical phenomena.</p> <p>It will involve a combination of data acquisition, making measurements of radon and, e.g. groundwater / water-table levels, over extended periods, and data analysis and modelling. The appointee will have considerable flexibility in choosing the balance of the project but will be expected to pursue the general development and extension of novel methods, for detecting, analysing and visualising tidal and other periodic / recurrent data. There will be opportunities to extend the scope of these methods to include a range of data, to develop models for the geophysical processes involved and to investigate the human and health implications.</p> <p>Kingston University runs a Public Health England validated radon testing facility for domestic properties. Applicants should have a background which includes mathematical, geological and /or environmental science skills. Some knowledge of statistical methods and programming would be advantageous. This is a project that will be jointly supervised by Kingston University, the University of Northampton and IGP University of Paris, based at Kingston.</p>			