

Project proposal template Graduate School studentships March 2015

<i>Project title</i>	<input style="width: 95%;" type="text" value="System for high resolution transmission of medical images"/>
<i>First Supervisor</i>	<input style="width: 30%; border: none;" type="text" value="Professor"/> <input style="width: 10px; border: none;" type="button" value="v"/> <input style="width: 55%; border: none;" type="text" value="David Wertheim"/>
<i>Second Supervisor</i>	<input style="width: 95%;" type="text" value="Nada Philip"/>
<i>School</i>	<input style="width: 95%;" type="text" value="Computing and Information Systems"/> <input style="width: 10px; border: none;" type="button" value="v"/>
<i>Other member of supervisory team (no more than three KU supervisors in total)</i>	<input style="width: 80%;" type="text"/>
<i>Specific requirements beyond 2:1 degree</i>	<input style="width: 95%;" type="text" value="First (or equivalent) or MSc degree in Computing, data communication or equivalent"/>

**Project summary
(max 4,000 characters)**

This project aims to develop novel methods for efficient wireless transmission of medical images along high resolution spatially and in time. The approach will initially be applied to medical ultrasound images.

Transmission of medical images can be useful in allowing early assessment by a specialist. Several images or a video clip may be required to allow appropriate review. This project aims to develop novel methods for efficient wireless transmission of medical images allowing high resolution communication both spatially and in time. The approach will initially be applied to medical ultrasound images and video clips. In addition the suitability of local and cloud based computing will be examined for different scenarios. Software will also be developed in order to help evaluate appropriate methods.

Prior knowledge of 'MATLAB' would be useful but is not essential for this research. An interest in clinical research as well as analysing images would help. Thus the project may be of interest to students from a variety of backgrounds including Computing, Maths, Engineering, Pharmacy, Chemistry and Life Sciences.

