

Project proposal template – Faculty studentships Summer 2014

<i>Project title</i>	Computerised monitoring of infusion pumps used for ambulatory chemotherapy.	<i>Director of Study</i>	David Wertheim.
<i>Second Supervisor</i>	Shereen Elnabhani (School of Pharmacy and Chemistry).	<i>School</i>	Computing and Information Systems <input type="button" value="v"/>
<i>Other members of supervisory team</i>	Reem Kayyali (School of Pharmacy and Chemistry).	<i>Any requirements from applicant (eg degree in specific subject area)</i>	<input style="width: 100%; height: 40px;" type="text"/>
Project summary (max 1,000 characters)			
Aims			
To develop and apply computerised methods for monitoring infusion pumps used for ambulatory chemotherapy.			
Project Outline			
<p>This project is part of multi-disciplinary research involving the School of Pharmacy and Chemistry in collaboration with the School of Computing and Information Systems. Infusion pumps are used to deliver therapeutic drugs such as chemotherapy and antimicrobial therapy at a controlled rate. The project aims to develop methods to computerise the monitoring of such pumps so that the patient can report to the healthcare setting for their disconnection at the correct time; this should help to provide efficient use of resources and time. Software and testing systems will also be developed in order to help evaluate appropriate methods.</p> <p>Prior knowledge of 'MATLAB' would be useful but is not essential for this research. An interest in clinical research as well as analysing data and 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.</p>			