Summer placement report 2014

Name: William Davies

Company: Quanta Fluid Solutions

During the last two summers I have completed placements at Quanta Fluid Solutions as a Test Technician. The first summer consisted of System Integration testing and the second summer of Verification testing on the SC+ Haemodialysis System.

Day to day duties included progress meetings each morning, executing test specifications which involved a variety of apparatus and setups, and authoring test reports to document results. This involved working closely with engineers from other departments such as machine preparation, software, electrical, and the workshop for specific rigs.

As part of verification testing I was also offered the chance to work at an offsite testing facility with external contractors.

Along with verification testing there were opportunities to work on research projects to improve certain aspects of the machine such as sensors and operation.

While at Quanta I was entrusted with the opportunity to work on a real life project completing the same work as fellow test technicians. There was a friendly working environment with employees of all ages and backgrounds that were always willing to offer knowledge and advice. Alongside applying my University studies I gained a technical understanding of the components and inner workings of the SC+ Haemodialysis System including valves (needle, ball, PRV), regulators, solenoids, and pumps (compressor, peristaltic, diaphragm). I also experienced using data acquisition equipment including flow meters, conductivity probes, pressure transducers, and thermocouples which has helped with modules such as Process Systems and Principles of Process Control.

Quanta is a pioneering medical devices company developing advanced haemodialysis systems for use in dialysis centres and at home settings. The focus is on the development and commercialisation of a novel cartridge-based haemodialysis system named SC+. This is the only high performance, portable, compact haemodialysis system with the clinical efficacy and high flow rates of traditional in-centre machines.

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