

2022 School of EECMS Summer Internship Application Form

Main Supervisor	A/Prof Nicola Armstrong
Is the main supervisor an ECR/MCR?	No
Other supervisors (if applicable)	
Project Title	Statistical analysis of genomic data
Duration of project (select between 4 and eight weeks)	8 weeks (min 6 weeks)
Project Description	<p>In recent years, the technologies available with which to interrogate the genome on a large scale have increased exponentially. The decrease in cost associated with these technologies has led to their widespread application in population studies and disease cohorts. A major goal is then to identify changes which are linked or associated with the development of adverse phenotypes. Identification of at-risk individuals earlier, either in their lifespan (i.e. diagnosis), or during the treatment phase, may allow the application of precision medicine approaches and lead to improved outcomes. Several projects are available in this area, ranging from identifying signatures of risk to benchmarking performance of analysis methods. Projects would interest students with an interest in HPC, applied data analysis and biology.</p>