

## 2013 Cohort

Student	Title	Lead Supervisor	Industrial Partner
Joseph Adebogun	Wear forensics	Prof. Phil Withers	BP Castrol
Jake Andrews	Corrosion fatigue cracking in CO <sub>2</sub> /H <sub>2</sub> S environments under biaxial stress loading	Prof. Bob Akid	BP
Felicity Baxter	The effect of proton irradiation on the corrosion of Zr LWR cladding	Dr. Philipp Frankel	Rolls Royce
Lyndsey Benson	Ore-to-More: Creating new markets for novel low-cost titanium alloys from natural and synthetic rutile	Dr. Martin Jackson	Metalysis
Urslaan Chohan	Hydrogen embrittlement in next generation nuclear reactor steels under irradiation	Dr. Enrique Jimenez Melero	
Alec Davis	High performance magnesium alloys for aerospace applications	Prof. Joe Robson	Magnesium Elektron
Edward Gallagher	Processing of Nb-silicide based alloys	Prof. Panos Tsakiroopoulos	Rolls Royce
Matthew Goodall	Control of cosmetic corrosion in aluminium automotive alloys	Prof. Xiaorong Zhou	AkzoNobel
Michael Howson	Heat treatment aspects in the production of large forgings	Prof. Brad Wynne	Sheffield Forgemasters and Rolls Royce
Rory Hulse	Modelling the interaction of alloying elements with irradiation in zirconium nuclear fuel cladding	Dr. Chris Race	Rolls Royce
Faris Karouni	Modelling for high quality heat treatment of large forgings	Prof. Brad Wynne	Sheffield Forgemasters
Melissa Keogh	Predicting damage in corrosion resistant alloys (CRAs) under combined effects of stress and corrosion	Prof. Bob Akid	BP
Jared Kitchen	Rapid prototyping of new materials and heat treatments for large scale forgings by undertaking microstructure/mechanical property assessment at the correct length scale	Prof. Brad Wynne	Sheffield Forgemasters
Sarah Morrish	Manufacture testing and validation of hybrid ALM components	Prof. Iain Todd	GKN Aerospace
John Nutter	Direct observation of the movement of the austenite-ferrite interface in steels	Prof. Mark Rainforth	
Jamie Pennington	The effect of hot working and heat treatment parameters on the microstructure and properties of ZERON 100 super duplex stainless steel forgings	Prof. Brad Wynne	NeoNickel
Maria Yankova	Understanding the oxidation of zirconium alloys with atomistic simulation	Dr. Chris Race	