

## 2015 Cohort

Student	Title	Lead Supervisor	Industrial Partner
Maryam Al-Janabi	Modelling of hot titanium extrusions for enhanced shape, microstructure and crystallographic texture control	Prof. Brad Wynne	Alcoa
Alessandro Cattivelli	Mechanisms of underclad intergranular cracking in a reactor pressure vessel steel after post-weld heat treatment	Dr. John Francis	Areva
Claudius Dichtl	The role of microstructure on strain localization in near-alpha titanium alloy	Prof. Michael Preuss	Rolls Royce and Timet
Shaun Earl	Surface degradation mechanisms in rail steels	Prof. Mark Rainforth	British Steel
Tomi Hinnela	Blown powder additive manufacturing for the repair of aerospace components	Prof. Iain Todd	Rolls Royce
Robert Howell	Tantalum-based alloys for high heat flux environments	Prof. Brad Wynne	Metalysis
Nafisa Javed	A new generation of high performance 5000-series aluminium alloys for military applications	Prof. Joe Robson	DSTL
Benjamin Jones	The influence of composition and wire drawing on the microstructure and properties of high strength wire rod steels	Prof. Mark Rainforth	British Steel
Nayden Matev	Effect of variation in machining-induced damage in aeroengine high performance materials	Dr. Martin Jackson	Rolls Royce
Marta Muniz Mangas	Welding of bainitic rail steels	Dr. Eric Palmiere	British Steel
Sean Roche	Investigating the effect of thermomechanical processing on microtexture in Ti834 compressor disc alloy	Prof. Brad Wynne	Rolls Royce
Zaheen Shah	Characterizing and modelling precipitation in zirconium alloys	Prof. Joe Robson	Westinghouse and Sandvik
Sarah Smythe	Low cost titanium wire for additive manufacturing of defence equipment	Dr. Martin Jackson	DSTL
Emmanouil Stavroulakis	Functionally graded components for nuclear applications	Prof. Michael Preuss	Rolls Royce
Joshua Taylor	Quantifying the effect of vanadium additions in long products	Dr. Eric Palmiere	British Steel
Thomas Woodward	Understanding environment-induced degradation of steels using novel in-situ analytical transmission electron microscopy techniques	Prof. Grace Burke	BP