

**Leanne Jones**

BSc (Hons), PhD, AIMMM

**Metallurgist**

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Leanne graduated with a BSc (Hons) in Physics with Medical Applications in 2017 and a PhD in Physics in 2022, both at the University of Liverpool. Following her studies, she spent 3 years at the Department of Materials, University of Oxford as a Postdoctoral Research Associate focussing on understanding and developing alloy-based electrocatalysts for Hydrogen Production. Over her career, her research has focussed on chemical and physical characterisation of materials and interfaces for applications including metal and alloy-based electrocatalysts, battery degradation, 2-dimensional materials, and photovoltaic materials. Her expertise lies in electrochemical characterisation of redox reactions, X-ray characterisation of materials, and development of novel technologies for reaction mechanism determination.

Techniques: Soft and hard X-ray absorption/ photoemission spectroscopy, Hard X-ray photoelectron microscopy, scanning & transmission electron microscopy, electrochemical characterisation of redox reactions, physical vapour deposition of metal and alloy nanoparticles, Raman, X-ray Raman.

Leanne joined Brookes Bell as a Metallurgist in September 2025. Since starting, she has assisted on claims related to:

- Copper pipe corrosion
- Ferrous cargoes for corrosion and contamination during transit and handling damage (Hot rolled, cold rolled, and galvanised coils, sheets, and plates)
- Corrosive cargoes and their effects on tanks, containers, and/or ship's hold structure
- Corrosion of ship's structures and equipment related to sea water exposure.
- Sulphur and sulphide cargoes.
- Bearing failures (gear/thruster, engine)

### **Academic Qualifications**

BSc Physics with Medical Applications (University of Liverpool)

PhD in Physics (University of Liverpool)

### **Professional Memberships**

Affiliate Member of IoM3