

# 2016 National Research Infrastructure Roadmap Capability Issues Paper

<b>Name</b>	<b>Peter Tran</b>
<b>Title/role</b>	<b>Industrial Chemist</b>
<b>Organisation</b>	<b>Norseld Pty. Ltd.</b>

## Health and Medical Sciences

**Question 15: Are the identified emerging directions and research infrastructure capabilities for Health and Medical Sciences right? Are there any missing or additional needed?**

Norseld is an Australian based manufacturer that makes/markets and sells medical lasers for use in aesthetic markets around the world. Founded on 25 years of research and development, Norseld has perfected the Copper Bromide laser to be a gold standard in the treatment of vascular and pigmented lesions.

The Dual Yellow laser uniquely produces two wavelengths – 578 nm yellow and 511 nm green. Each wavelength is powered by our copper bromide based technology to penetrate deeply, without creating collateral damage. The Dual Yellow multi wavelength laser eliminates the need for other aesthetic lasers, with proven results for all skin types on the Fitzpatrick I – VI scale.

As a high technology international company; the availability of state of the art; high technology diagnostic surface analysis tools like the X-ray Photoelectron Spectrometer (XPS) and the Time of Flight Secondary Ion Mass Spectrometer (ToF-SIMS) which is located within the Future Industries Institute (FII) at the Mawson Lakes Campus of the University of South Australia are Indispensable. These diagnostic tools allow Norseld to identify contamination on components and assess the purity of our lasing materials. The ability for us to discuss our research needs with qualified and knowledgeable university staff greatly amplifies our in-house R & D capabilities. Without the Australian Microscopy and Microanalysis Research Facility (AMMRF) it would be more difficult to competently compete on the world market.