

The Lighthouse Platform for Photonics and Optics in New Zealand

www.lighthouseplatform.org.nz

Photonics and Optics: The Science and Technology of Light

The Lighthouse Platform is a national initiative teaming researchers from the Universities of Otago and Auckland and Industrial Research Ltd, and the company Southern Photonics. Its goal is to engage with industry and support photonics-related initiatives in New Zealand and overseas.

Photonics is a \$700 billion global industry critical to the development of the high technology sector

It is used across many applications, including

- Optical communications, data carrying, fibre optics - especially broadband internet

- Ultrafast and highly accurate tools for industry:

 - Sensing and measurement

 - Materials processing using high-power lasers: precision hole-drilling, cutting and shaping

 - Medical devices

- CD and DVD technology

The Lighthouse platform aims to raise the profile and competitiveness of New Zealand's photonics sector by providing

- Links between New Zealand research expertise and industry

- A network of companies, researchers, government and overseas platforms in photonics,

- Assistance with market analysis and funding applications for companies without in-house resources,

- Facilitating commercialization of government-funded research in innovative technologies,

- Access to skilled graduates in New Zealand - these are currently in short supply world-wide; and

- Access to technical advice, specialised tools and state-of-the-art equipment.

The Lighthouse Platform can offer expert advice in the following areas of photonics expertise:

- Optical communications, fibre optics, ultra fast broadband

- Laser processing and precision micro-engineering

- Strain sensing for buildings and infrastructure

- Gas and other molecule sensing

- Construction of precision laser systems

- Photonics and optical materials

Contact information can be found at www.lighthouseplatform.org.nz or e-mail info@lighthouseplatform.org.nz

A Platform Linking Research and Industry in Modern Optical Technology