

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 companies Southern Photonics and Photonic Innovations Ltd. 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