



## Lorne Whitehead

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### Research Theme

Electromagnetic and Nanoscale Materials and Manufacturing (ENMM)

### Research Areas

- Novel geometrical microstructures and their interaction with electromagnetic fields
- Applications in illumination engineering
- Applications in display technology
- Contributions to international standards for lighting and displays
- Focus on environmental implications, sustainability and human well-being
- Focus on collaboration with societal partners, including creating spin-off companies and licensing new intellectual property

### Research Facilities/Tools

- Large scale radiometric and photometric test facility
- 3m diameter baffle-free integrating sphere radiometer
- Large scale thermal measurement and test equipment
- In-house machining and assembly tools
- Access to microreplication and nanolithography facilities
- Access to microscopy facilities, including scanning electron and confocal microscopy

