

# PhD Scholarship – Measurement of Appearance by Light Scattering

## Description

This scholarship has been established by the Measurement Standards Laboratory of New Zealand to develop metrological capability in New Zealand and contribute to advances in the science of measurement internationally. In 2019 this scholarship supports a project to improve the traceability of appearance measurements of scattering materials.

We make judgements every day based on light scattered by surfaces around us. Should I eat it? how much would I pay for it? Is it real? As new materials and advanced measurement techniques become available, the need for traceable measurements of ‘appearance’ is growing in a range of industries such as computer graphics, automotive coatings and lighting design. The project that the recipient of this scholarship will work to improve methods of bidirectional and integrating sphere transmittance measurements to support those industries.

The study will be carried out primarily in MSL’s laboratories at Callaghan Innovation, 69 Gracefield Rd, Lower Hutt. For more information about MSL, please visit our website: [measurement.govt.nz](http://measurement.govt.nz). For a more detailed description of the project, its objectives and the skills you can expect to develop, please contact [annette.koo@measurement.govt.nz](mailto:annette.koo@measurement.govt.nz).

## Eligibility

This scholarship is for students with a physics or engineering background to complete a PhD in physics, specifically in the field of metrology.

Applicants must be eligible to enrol as physics PhD students at Victoria by the end of 2019 and must be New Zealand residents. Experience in experimental physics, and a strong mathematics background will be advantage.

## Value of Scholarship

Annual stipend: NZD 27500 | Fees contribution per annum: NZD 8496 | Tenure: 3 years

## How to Apply

Please send

- a CV including a transcript and the names of at least two referees
- a statement or letter describing why you want to pursue this study

to Annette Koo ([annette.koo@measurement.govt.nz](mailto:annette.koo@measurement.govt.nz)) by 1 July 2019. Applicants will be expected to start their PhD before the end of 2019.