

## PhD Scholarship - Macquaire University - Photonics of Spider Silks

Mon, 2017-04-03 06:47 - [Jenny Ghabache](#) [1] **At:** Macquarie University  
**Deadline:** 20 May, 2017

### Location

Macquarie University Eastern Rd  
Macquarie Park 2113 Australia  
33° 47' 36.474" S, 151° 8' 4.1784" E  
See map: [Google Maps](#) [2]

Opportunities exist for students to research the photonics and optics of spider silks and webs. As a natural, nanocomposite, self-assembled dielectric material; certain spider silks are high optical quality fibres with high birefringence, high dispersion and high optical nonlinearity. They are biocompatible and have potential for use in a variety of sensors. Projects can be different combinations of theoretical simulations, research of micro-optical techniques to measure the optical properties, nanophotonics, micro- and nano-scale microscopy, and photonics applications of silks.

PhD scholarships that can support potential candidates cover the national/international fees (International: 32,000 AUD/yr), and provide an annual stipend of ~26,600 AUD. The PhD candidature is supported with up to 15,000 AUD for travel and/or research costs over the full period of enrolment.

DEADLINE May 20 2017

To inquire about applying please email a CV. Label the Subject of your email as "PhD Application Inquiry" to

Professor Deb Kane  
deb [dot] kane [at] mq [dot] edu [dot] au  
<https://directory.science.mq.edu.au/users/634> [3]

- [PhD](#) [4]

**Source URL:** <http://qurope.eu/db/jobs/phd-scholarship-macquaire-university-photonics-spider-silks>

### Links:

[1] <http://qurope.eu/users/jennyg>

[2] <http://maps.google.com?q=Eastern+Rd%2C+Macquarie+Park%2C+%2C+2113%2C+au>

[3] <https://directory.science.mq.edu.au/users/634>

[4] <http://qurope.eu/db/jobs/type/phd>