

# ***Postdoctoral researcher in multimode fibre optics for short-reach datacoms***

***School of Information Technology and Electrical Engineering (ITEE),  
The University of Queensland, Brisbane, Australia.***

The University of Queensland (UQ) has a strong internationally focussed research culture, and is currently ranked in the top 1% of world universities in three international University ranking systems. UQ is building a cluster of international-quality research centres and institutes that will keep it at the frontier of emerging research fields.

## **The role**

We seek applications from suitably qualified candidates who will focus on the development of optical systems for short-reach datacoms in multimode optical fibre using vertical cavity surface emitting lasers (VCSELs). The position is funded under an Australian Research Council (ARC) Linkage Project in collaboration with Finisar (Sunnyvale, California). Examples of previous and ongoing work in this area is available here : <https://www.youtube.com/user/joelacarpenter>

## **The person**

The applicant should possess a PhD or postdoctoral experience in a relevant area of physics or engineering. Ideally candidates will be experienced with Fourier optics (especially SLMs), multimode fibre optics and free-space optics. Strong programming skills are desirable, particularly in Matlab, .NET, C, C++ and CUDA. The successful applicant should have a strong desire to develop a successful and highly productive research career and possess good general research skills and writing abilities.

## **Remuneration**

This is a full-time, fixed term appointment for 2-3 years. Initial appointment would be for 2 years. The remuneration salary package will range between Level A6-B1 (\$81,545.80-92,142.74 AUD/annum) plus employer superannuation contributions of 17%.

## **Enquires**

To discuss this role please contact Dr. Joel Carpenter at [j.carpenter@uq.edu.au](mailto:j.carpenter@uq.edu.au)

Position would commence no earlier than 26<sup>th</sup> January 2019.

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