



**POSTDOCTORAL RESEARCH ASSOCIATE/RESEARCH FELLOW – EXPERIMENTAL GUIDED WAVE OPTICS AND OPTICAL COMMUNICATION (UP TO 2 POSITIONS)
CUDOS - THE ARC CENTRE OF EXCELLENCE FOR ULTRAHIGH BANDWIDTH DEVICES FOR OPTICAL SYSTEMS
SCHOOL OF PHYSICS
REFERENCE NO. 099/0112**

The University of Sydney is Australia's premier University with an outstanding global reputation for academic and research excellence. It employs over 7500 permanent staff supporting over 49,000 students.

[CUDOS](#), the ARC Centre of Excellence for Ultrahigh bandwidth Devices for Optical Systems, has been funded for seven years commencing 2011. We now wish to recruit two researchers at level A (Postdoctoral Research Associate) or level B (Research Fellow) to join our program.

The Centre's research, which spans seven Australian universities, aims to develop a photonic integrated circuit that brings together expertise in nonlinear materials, metamaterials and hybrid integration techniques to develop photonic circuits for application in terabit per second optical signal processing, mid IR photonic integrated circuits and integrated circuits for quantum photonics. The University of Sydney is headquarters for the Centre. For more information about CUDOS please visit: <http://sydney.edu.au/science/physics/cudos>

You must have a PhD in physics, electrical engineering or a related discipline, with excellent communication skills and the ability to work in our highly collaborative team environment. For appointment at Level B you must provide evidence of the independent research capacity associated with some demonstrated postdoctoral research experience.

You will apply your expertise to provide research support in the investigation of ways to increase the data-carrying capacity of optical networks. Specific skills and expertise necessary for each subfield, are as follows:

Experimental guided wave optics research focus

Essential skills: demonstrated expertise in experimental guided wave optics, ultrafast nonlinear optics, ultrafast lasers.

Desirable: demonstrated experimental experience in optical communication systems.

Optical communication systems research focus

Essential skills: demonstrated experimental expertise in optical communication systems and high speed transmission.

Desirable: experimental guided wave optics, ultrafast nonlinear optics, ultrafast lasers.

The positions are full-time fixed term for two years subject to the completion of a satisfactory probation period for new appointees. Further offers may be available subject to performance funding and need. Membership of a University approved superannuation scheme is a condition of employment for new appointees.

Remuneration package: \$92K - \$124K p.a. (which includes a base salary range level A to B of \$78K - \$105K p.a., leave loading and up to 17% employer's contribution to superannuation). The level of appointment will be commensurate with qualifications and experience. Visa sponsorship and some support towards relocation expenses may be available if required.

All applications must be submitted via the University of Sydney careers website.

Visit sydney.edu.au/positions and search by the reference number for more information and to apply.

CLOSING DATE: 19 March 2012 (11:30PM Sydney time)

The University is an Equal Opportunity employer committed to equity, diversity and social inclusion. Applications from equity target groups and women are encouraged as they are under-represented in this field.

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