

Institut Fresnel (Aix-Marseille Université, CNRS and Centrale Marseille) in collaboration with the University of Sydney is offering several PhD fellowships in the field of Photonics. The fellowships are funded by A*MIDEX Foundation (amidex.univ-amu.fr) to develop sustainable partnership between the Research Council Centre of Excellence, CUDOS and the Institut Fresnel (Aix-Marseille Université, CNRS and Centrale Marseille).

The ALPhFA project (Associated Laboratory for Photonics between France and Australia) addresses some of the most topical subjects in modern photonics and physics, i.e. metamaterials, plasmonics and mid-infrared photonics.

More specifically PhD successful candidates will work along one of the following research lines:

- optical antennas, with precise design of low loss antennas and calculation and measurement of local density of states (LDOS) antennas,
- design and realization of electromagnetic and acoustic (elastic plates) metamaterials for waveguides, sub-wavelength resonators for superlensing and cloaking devices...
- design and characterization of chalcogenide or silicon waveguides for nonlinear applications (supercontinuum or nonlinear plasmonics).

The successful candidates will work under a cotutelle scheme between the University of Sydney and Aix-Marseille Université and within leading Australian and French groups in photonics.

Candidates are requested to submit:

- A presentation letter with declaration of research interests,
- A Curriculum Vitae, including contact details,
- A scanned copy of your University academic transcripts,
- A scanned copy of the degree, if available at the time of application,
- The contact e-mail of two potential referees.

Contact:

Stefan ENOCH
Director of Institut Fresnel
stefan.enoch@fresnel.fr

Links:

www.fresnel.fr
www.cudos.org.au