



FRANCE-AUSTRALIA SCIENCE INNOVATION COLLABORATION (FASIC) Program Early Career Fellowships 2015

Eight leading Australian early career researchers have been awarded scientific grants to undertake important research under France-Australia Science Innovation Collaboration (FASIC) Program Early Career Fellowships in 2015.

The program supports Australian early career researchers, from both the public and private sectors, to collaborate with international partners on leading edge science and technology in order to contribute to Australia's economic, social and environmental wellbeing.

Australian early career researchers will travel to research institutions in France to commence their projects from 1 July 2015. They will be working on a range of topics including: (1) food and agribusiness; (2) mining equipment, technology and services; (3) oil gas and energy resources; (4) medical technologies and pharmaceuticals; and (5) advanced manufacturing.

This activity is supported by the Department of Industry and Science and jointly coordinated with the French Embassy in Australia.

Successful exchange participants FY 2015-2016

Researcher	Project	Host Institution(s)
Dr Cristian Alvarez University of Melbourne	Towards the characterization of the eg95 gene family in the G5 genotype of <i>Echinococcus granulosus</i> .	Dr Franck Boue National Reference Laboratory for Echinococcus spp.
Dr Anna Hudson Neuroscience Research Australia	Development of automatic artefact removal to optimise EEG detection of respiratory related cortical activation during mechanical ventilation.	Dr Mario Chavaz L'Institut du Cerveau et de la Moelle Épinière.
Dr Branka Miljevic Queensland University of Technology	Will the use of alternative fuels increase the overall urban pollution?	Dr Barbara D'Anna National Centre for Scientific Research
Dr Marguerite Renouf The University of Queensland	Fast-tracking eco-innovation in agriculture by testing the application of streamlined environmental life cycle assessment (LCA) tools to perennial crops.	Professor Frederique Jourjon Ecole Supérieure d'Agriculture d'Angers

Researcher	Project	Host Institution(s)
Dr Neeraj Sharma University of New South Wales	Using advanced techniques to understand and develop new materials for energy storage.	Professor Mark Johnson Institute Laue Langevin
Dr Romana Stark Monash University	How does the brain sense the body's needs and drive food intake?	Professor Serge Luquet Université Paris Diderot
Dr Lihong Su University of Wollongong	Study of the deformation behaviours of titanium alloys fabricated by additive layer manufacturing.	Professor Claude Esling Université de Lorraine
Dr Wei Xu Murdoch University	Comparative studies on chemosensory genes in generalist and specialist moths and butterflies.	Dr Emmanuelle Jacquín-Joly French National Institute of Agronomical Research (INRA)

Successful exchange participants FY 2014-2015

Researcher	Project	Host Institution(s)
Dr Matthew Baker Victor Chang Cardiac Research Institute	Revealing the genetic signature of temperature resistance in bacteria.	Dr David Bensimon École Normale Supérieure
Dr Dominic Hare University of Technology Sydney	Are neuronal iron levels altered in a model of Parkinson's disease?	Dr Sylvain Bohic European Synchrotron Radiation Facility (ESRF) Dr Peter Cloetens European Synchrotron Radiation Facility (ESRF)
Dr Joshua Ho Victor Chang Cardiac Research Institute	Decoding the language of life by computational linguistics and active learning.	Professor Jean Garnier French National Institute for Agricultural Research (INRA) Dr Nataliya Sokolovska Pierre-and-Marie-Curie University
Dr Kamel Hooman The University of Queensland	Development of advanced waste heat recovery systems; application to metal foam heat exchangers.	Professor Dominique Gobin École Centrale Paris
Dr Jahangir Hossain Griffith University	Power microgrid stability challenges during highly fluctuating feed-in.	Professor Seddik Bacha Grenoble Institute of Technology (Grenoble INP)
Dr Jian Liu Curtin University	Advanced Yolk-shell catalysts for volatile organic compounds removal.	Professor Jean-Francois Lamonier Université Lille 1 Professor Alain Walcarius National Centre for Scientific Research (CNRS)

Researcher	Project	Host Institution(s)
Dr Kristen Splinter UNSW Australia	Development and application of 2 semi-empirical coastal evolution models to predict coastal change at timescales of days to years along Australian and French wave-dominated coastlines.	Dr Bruno Castelle University of Bordeaux
Dr Liu Ye The University of Queensland	The next generation of wastewater treatment – from pollutant removal to resource recovery with neutralised carbon footprint.	Professor Matthieu Sperandio National Institute of Applied Sciences (INSA)