

Queensland

University of Southern Queensland

FT0990768 Dr N Mai-Duy

Approved Project Title **Direct simulation of composite microstructures in fluid and elastic media**

2009 : \$ 85,800
2010 : \$ 171,600
2011 : \$ 171,600
2012 : \$ 171,600
2013 : \$ 85,800

Primary RFCD 2918 INTERDISCIPLINARY ENGINEERING

Administering Organisation University of Southern Queensland

Project Summary

The proposed innovative computational methodology will improve the design and performance of a wide range of mechanisms and industrial processes involving particulate inclusions, from engineering to biological applications. The resultant technology will make a contribution to maintain and enhance Australia's role in the development of advanced engineering materials through manipulating their composite microstructures. The proposed computational method will also lead to new opportunities for Australian companies that develop computer simulation software. Our researchers in computational mechanics will gain further opportunities to extend the advances this project will make.