

**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.