

PhD project available

School of Engineering and Information Technology,
The University of New South Wales,
Australia, www.unsw.adfa.edu.au



Project Title: Optimum design of novel materials

Supervisors: Professor Tapabrata Ray

Degree: PhD in Mechanical Engineering/Computer Science

Project description:

Optimal design of novel and smart materials is becoming an increasingly important area of research. Recent advancements in the area of constitutive modelling and computational methods offer the opportunity for direct tailoring and synthesis of new materials. This interdisciplinary research aims to develop an optimization framework to support design of ceramics, polymers and anisotropic fiber composites.

Required Background:

Good programming (Matlab, C/C++) and analytical skills, preferably with a Masters Degree in Engineering / Computer Science. Prior research experience in optimization and materials modelling is desirable but not necessary. Demonstrated competence in academic writing and oral presentation skills will be beneficial. Must meet UNSW admission criteria and English Language requirements.

Expected joining:

As soon as possible. Please send scanned copies of transcripts and CV to t.ray@adfa.edu.au

For more information:

About our Multi-disciplinary Design Optimization (MDO) group, please visit our website:

<http://www.mdolab.net/index.html>

About recent work in MaO field, refer to this repository:

http://www.mdolab.net/Resources/mao_repository_main.html