

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 Renewable Energy Systems

Supervisors: Professor Tapabrata Ray

Degree: PhD in Mechanical Engineering / Computer Science

Project description:

Renewable energy systems for wind power generation, solar power generation etc require consideration of multiple often conflicting set of design objectives. In addition, a practical system needs to comply with a set of statutory constraints and needs to be robust.

This project aims to develop a wind farm design optimization framework that would aid in selecting feasible configurations from a trade-off set of alternatives.

Required Background:

Good programming (Matlab, C/C++) and analytical skills, preferably with a Masters Degree in Engineering / Computer Science. Prior research experience in optimization is desirable but not necessary. Understanding of CFD principles and competence in modelling flows would be useful. 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