

# De Montfort University

## Graduate School Full Bursary PhD Scholarship

### Evolutionary Dynamic Multi-objective Optimisation in Smart Energy Networks

Centre for Computational Intelligence  
School of Computer Science & Informatics, Faculty of Technology  
De Montfort University, Leicester

**COMMENCING OCTOBER 2017**

A PhD research scholarship including stipend and tuition fee costs is offered within the Centre for Computational Intelligence in the School of Computer Science and Informatics. It is available to UK or EU students who are suitably qualified and have outstanding potential as a researcher.

In offering this scholarship the University aims to further develop its proven research strengths in Computational Intelligence and Data Stream Analysis. It is an excellent opportunity for a candidate of exceptional promise to contribute to a stimulating, world-class research environment.

The project aims to study evolutionary computation (EC) methods for solving dynamic multi-objective optimisation problems (DMOPs) in smart energy networks. The objectives are to: 1) Model typical energy management problems in local/regional smart energy networks as DMOPs in cooperation with project partners (Leicester City Council and Ricardo-AEA); 2) Design efficient EC methods to solve these modelled DMOPs in smart energy networks; 3) Develop prototype software of applying EC methods for solving DMOPs in smart energy networks. The project is timely in the research areas of EC for DMOPs in general and EC for DMOPs in smart energy networks in particular, and important since DMOPs are pervasive in smart energy networks and addressing them will lead to significant economic, social, and environmental benefits.

For a more detailed description of the scholarship, the subject area at DMU and an application pack please visit <http://www.dmu.ac.uk/research/graduate-school/phd-scholarships.aspx>. Please direct academic queries to Prof. Shengxiang Yang on +44 (0)116 2078805 or email [syang@dmu.ac.uk](mailto:syang@dmu.ac.uk). For administrative queries contact the Graduate School office email: [researchstudents@dmu.ac.uk](mailto:researchstudents@dmu.ac.uk), tel: 0116 250-6309. Completed applications should be returned together with two supporting references and an academic transcript.

Applications are invited from UK or EU students with a Master's degree or good first degree in a relevant subject (First, 2:1 or equivalent). Doctoral scholarships are available for up to three years full-time study commencing in October 2017 consisting of a bursary of £14,296 per annum in addition to waiver of tuition fees.

Please quote ref: TECHFB2

**CLOSING DATE: Monday 10th April, 2017. Interviews for shortlisted candidates will be held by Friday 28th April approximately.**