

# PhD Studentship

## Smart Technology Research Centre / Computational Intelligence Research Group

### *School of Design, Engineering and Computing, Bournemouth University, United Kingdom*

Applications are invited for a 3 year, fully funded PhD research studentship to work on a project entitled "**Handling Multiple Adaptive Elements in Predictive Modelling with Streaming Data**". This project, while fully funded by the Bournemouth University, will be executed in the framework of a large EU funded INFER project ([www.infer.eu](http://www.infer.eu)).

Adaptive learning in data mining is of increasing importance as more data is organized in the form of streams rather than static databases and is expected to evolve over time. As data is changing, predictors need to be able to update themselves automatically, otherwise, as time passes, they will become inaccurate and thus useless. The proposed project will focus on how to make the prediction models automatically adaptive to changes. This project aims to develop such integrated adaptive/learning algorithms and approaches working on different time scales from real time adaptation to life long learning and optimisation within multi-component, multilevel predictive systems developed as part of the INFER project.

The student will be joining the Computational Intelligence Research Group within the Smart Technology Research Centre and will be primarily based in the School of Design, Engineering & Computing in Bournemouth but will also be required to frequently visit and work at our commercial partners' labs (REC in Poland and Evonik Industries in Germany) providing an outstanding opportunity to gain a diverse experience of both academic and commercial environments.

The studentship carries a basic remuneration of £13800 pa tax-free and a waiver of the full-time research student fee. There are no restrictions on the nationality of the applicants and the selection will be based on the candidate's qualifications and experience.

Applicants should have a very strong mathematical background and hold a first or upper second class honours degree or equivalent in computer science, mathematics, physics, engineering, statistics or a similar discipline. Additionally the candidate should have strong programming experience using any or combination of C++, Matlab or Java.

For further details please contact Prof Bogdan Gabrys, e-mail: [bgabrys@bournemouth.ac.uk](mailto:bgabrys@bournemouth.ac.uk) or visit the following www pages: [http://dec.bournemouth.ac.uk/staff/bgabrys/PhD\\_Studentships\\_2011.html](http://dec.bournemouth.ac.uk/staff/bgabrys/PhD_Studentships_2011.html).

Interested candidates should follow the application procedure listed on the Bournemouth University web pages: [http://www.bournemouth.ac.uk/research/studentships/how\\_to\\_apply.html](http://www.bournemouth.ac.uk/research/studentships/how_to_apply.html). Further details concerning the studentship and application procedure can be also obtained from the Graduate School Manager - Dr Fiona Knight, Email: [graduateschool@bournemouth.ac.uk](mailto:graduateschool@bournemouth.ac.uk).