

# 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 "**Design of Effective User Interfaces for Incorporation of Expert Knowledge, Visualisation and Decision Making in the Context of Evolving Prediction Systems**". 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)).

This research project is concerned with the incorporation of expert knowledge and usability of the developed INFER platform through design of effective user interfaces. The studies will focus on efficient removal of complexity associated with selection and parameterisation of underlying algorithms and translation of the high level goals into effective solutions through GUI enabled interactions. The development of the interfaces will be consulted with the end user (i.e. process operators) through envisaged extensive acceptability study. The research in this project will also link to and cover support for transparency of the predictive model decision making and effective visualisation of the overall system, results and decision making process itself.

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, software engineering, mathematics, physics, engineering, statistics or a similar discipline. Additionally candidates should have very strong programming skills using Java and an excellent working knowledge of database systems like SQL Server or Oracle. Proficiency in or at least working knowledge of any or the combination of C, C++, C#, Matlab, OSGi, Eclipse, EIP, Apache Camel would be an advantage.

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).