

Funded MSc position

The Stochastic Dynamics and Complex Systems group (www.ul.ie/sdcs) is funded by a Science Foundation Ireland Investigator Award and forms part of MACSI (www.macsi.ul.ie) and the Department of Mathematics and Statistics at the University of Limerick. The group's research focuses on mathematical modelling and numerical simulation of random fluctuations, noise, and complexity effects upon systems of interest to science and industry. More information, including recent publications, may be found at www.ul.ie/gleesonj.

We are seeking candidates with very strong degrees in Applied Mathematics, Mathematical Physics, or related disciplines to fill the following research position from September 2009:

MSc in mathematical modelling of financial derivatives (in collaboration with Dr Donal Gallagher of Eudaemon Consulting, Dublin). Correlations and inter-connectedness of market agents play an important role in the pricing of many financial derivatives. In close collaboration with our industry partner, theoretical and numerical methods for new models will be implemented in C++, with the aim of contributing to the quantlib open-source library (www.quantlib.org). A background in C++ programming is essential, and knowledge of financial mathematics is desirable.

Stipend: €20,000 per annum for two years (from which postgraduate fees are payable), plus travelling expenses.

Application for the position is by CV and cover letter (include the names and contact details of two academic referees) to Prof. James Gleeson, james.gleeson@ul.ie. Informal inquires to the same address are welcome.

Closing date for applications: April 24, 2009.