

University of Surrey

FACULTY OF ENGINEERING & PHYSICAL SCIENCES
SURREY SPACE CENTRE

Research Fellow on Autonomous and Intelligent Systems

(Ref 8530)

Salary £29,249- £ 33,884 per annum

(subject to experience and qualifications)

Applications are invited for the position of Postdoctoral Research Fellow at the Surrey Space Centre (SSC) for a research project entitled “Reconfigurable Autonomy”. This is a 4-year post starting from **1st April 2012** and funded by British research council EPSRC. This project involves design and development of reconfigurable autonomous software based on rational agent concept. The aim is to provide standardized software solutions for future complex autonomous systems consisting of multiple vehicles, as well as to address advanced autonomous functions for learning, planning and multi-vehicle coordination.

Successful candidate will be required to develop a range of software rational agents for learning and planning within a defined software architecture which should also support multi-agent coordination. The target methodologies include fuzzy logic, re-inforcement learning, and hierarchical task network etc. Computer simulations, lab-based hardware tests and field trials need to be thoroughly designed and carried out. The PDRA will be expected to attend project progress meetings, where he/she will present project results through review presentations to various external academic and industrial partners. The PDRA will also be expected to work with other researchers and support relevant PhD projects within the AI and Autonomy Research Group of the SSC.

The applicants should have a good honours degree and PhD in relevant engineering disciplines ideally in software engineering, AI, autonomous systems and robotics. Expertise in machine learning and multi-agent systems is highly desirable. The position requires good analytical skills, programming skills in C++, Java or Python, and hands-on lab experience, with a mixture of excellent team working, communication and presentation skills.

Applicants should be aware that the United Kingdom Border Agency (UKBA) has currently imposed a limit on the number of migrants entering the UK. This limit is affecting the University's ability to sponsor staff under Tier 2 of the points-based system. Applicants should consider whether they can acquire the right to work in the UK on their own accord (e.g. EU national, Tier 1 or Tier 4 status).

Informal academic enquiries may be made to Dr. Yang Gao yang.gao@surrey.ac.uk, +44 (0)1483 683446. Further information on the Surrey Space Centre can be obtained from the SSC website <http://www.ee.surrey.ac.uk/SSC>

For an application pack and to apply on-line please go to our website: www.surrey.ac.uk/jobs. If you are unable to apply on-line please contact Miss Stacey Michaelides, HR Assistant on Tel: +44 (0) 1483 686106 or email: s.michaelides@surrey.ac.uk

Please quote Post Ref No. 8530

Closing date for applications: 12th February 2012

For further information about the University of Surrey, please visit www.surrey.ac.uk
We acknowledge, understand and embrace cultural diversity.