

Research Fellow on EU-funded CoSy Cognitive Robotics Project Birmingham [readvertisement]

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- *From:* Aaron Sloman <A.Sloman@xxxxxxxxxxxxxx>
 - *Date:* Wed, 28 Feb 2007 16:04:27 +0000 (UTC)
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[Revised advertisement]

Please forward to outstanding potential applicants.

Applications are required if possible by 14 March, though we may be able to process late applications if selection has not gone too far.

Full details, including application instructions, are available here:

<http://www.cs.bham.ac.uk/research/projects/cosy/rf07/>

SUMMARY:

Research Fellow (post-doc)

EU-funded Cognitive Robotics Project

School of Computer Science, University of Birmingham, UK

Tasks: Planning under uncertainty with 3-D vision and object manipulation in a multi-capability robot

Requirement: PhD or equivalent experience

Start date: as soon as possible.

Project started: Sept 2004

Project ends: Aug 2008

[But follow on projects are being planned]

Applications are invited for a Research Fellow to work on an EC-Funded project: CoSy: Cognitive Systems for Cognitive Assistants. This is a very ambitious multi-disciplinary project in which we are working to reintegrate some of the efforts in different areas of AI and Cognitive Science, notably cognitive architectures, planning, reasoning, robotics, computer vision, natural language understanding, cognitive psychology and machine learning.

This post is an addition to the existing CoSy team at Birmingham, comprising Jeremy Wyatt and Aaron Sloman (Co-PIs), three research-fellows (Nick Hawes, Somboon Hongeng, Michael Zillich) and a PhD student (Marek Kopicki). Dr. Richard Dearden is also associated with the project.

You will specifically be required to work on reasoning and learning about sensing and perceptual processing in a robot able to manipulate

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objects, with an emphasis on visual processing. The goal of the work will be to develop new sequential decision making methods for choosing sensing actions and making inferences about a scene when the robot has to make decisions about where to look, and what visual processing to perform. These methods are likely to involve planning (both symbolic and probabilistic approaches are relevant), learning for sequential decision making (e.g. reinforcement learning), and uncertain reasoning (e.g. Bayesian reasoning for fusion of visual processing results).

Applicants should hold, or be working towards the achievement of a PhD in Computer Science, AI, Cognitive Science, Engineering or related subject OR have equivalent research experience in robotics/vision research and linux expertise.

Research expertise in at least one area of planning or learning for sequential decision making is essential. You will also have a track record of strong publications in at least one of the following areas:

- * Uncertain reasoning and planning
- * Machine learning and statistical inference
- * Computer vision
- * Symbolic reasoning and planning

You will need excellent programming skills, in C/C++ or Java, together with the ability to engineer software to very high standards of reliability. You will work in a team of six researchers at Birmingham and along with partner groups in six other universities, working on an ambitious interdisciplinary EC-funded robotic project described at the CoSy web sites: www.cognitivesystems.org , www.cs.bham.ac.uk/research/projects/cosy/

You can find further particulars at <http://www.cs.bham.ac.uk/research/projects/cosy/rf07/> although it would be much more informative to mail us for a full description of the problems.

Starting salary in the range of £32,795 to £39,160 a year (potential progression on performance once in post to £44,074 a year), or in the range of £24,402 to £31,840 (potential progression once in post to £33,799 a year). This post is available from March 2007 until 28 February 2008 in the first instance, however it is normal, and expected, that the post will be extended for the full duration of the project (31 August 2008).

Informal enquiries preferably by email to:

Dr Jeremy Wyatt email: J.L.Wyatt@xxxxxxxxxxxxxx

tel:- +44 121 414 4788 or to

Prof Aaron Sloman email: A.Sloman@xxxxxxxxxxxxxx

tel:- +44 121 414 4775 or to

Dr Richard Dearden, email: R.W.Dearden@xxxxxxxxxxxxxx

Closing date: 14 March 2007

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For application instructions please see

<http://www.cs.bham.ac.uk/research/projects/cosy/rf07/>

Reference: S43099

Formal details from +44 121 415 9000 or www.hr.bham.ac.uk/jobs

HR, University of Birmingham, Edgbaston, Birmingham B15 2TT

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<http://www.cs.bham.ac.uk/~axs/>

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