

# Birmingham *Conservatoire*

## **Research Assistant (full time) Salary: £14944-£27077 per year**

This is a unique opportunity for a post-doctorial candidate to work on innovative performance technology projects at Birmingham Conservatoire, an internationally recognised music institution and Faculty of Music of UCE, the University of Central England. The candidate will be working in close collaboration with Lamberto Caccioli, Head of Music Technology.

The areas of development include:

1. multi-modal wireless system for the capture, analysis and mapping of performance-generated events (sound, gestures, controls)
2. electronic score follower

Applicants should have a PhD or relevant experience in Computer Science, Electronic Engineering, Signal Processing or a related area. Research interest and experience in one or more of the following relevant fields would be highly desirable: wireless systems design (802.11x, UWB), neural networks, HCI, actuators, gestural control, advanced DSP. Good programming skills are required.

The successful candidate must be prepared to visit organisations within mainland Europe. They should be able to prepare reports, papers and presentations independently and to collaborate effectively with university and industrial organisations. Knowledge of French would be an advantage. They may also assist with some teaching in the studios. This is a five-year appointment to begin in January or September 2004.

## **Research Studentship (Composition with Technology) £9,000 per year +fees**

A full-time Research Studentship is available for study to PhD, working under Lamberto Caccioli (Head of Music Technology) in the generation of compositions exploiting currently developing technology in the capture, analysis and manipulation of live performance sound and gestures. This includes wireless interactive systems for performers and electronic score followers. Some of the work will be experimental in nature.

The successful candidate will have a Master degree in Composition with Technology or Electro-Acoustic Composition or the equivalent. A good knowledge of Max/MSP is highly desirable, and some familiarity with programming an advantage. The successful applicant candidate may be able to spend some time in Paris.

The award may be taken up at any time between January 2004 and September 2004, and will be available for three years subject to satisfactory progress towards the PhD.