

Research Officer

Project Title: 'Development of Java based mobile phone applications for synchronized viewer participation with broadcast TV and Radio'.

Description: InTime Media specializes in synchronizing mobile phones with radio and television broadcasts. Much research has been carried out into speech and audio recognition, but very little seems to have been carried out in respect of hardware constrained devices such as mobile phones. The company urgently needs to address this knowledge gap.

The aim of the project is to assist InTime Media in making its core technology both more robust and available to the widest possible market. The company provides a method of enabling applications on mobile phones to synchronize with broadcast radio and television programmes. A range of methods are used to achieve this, but the most distinctive is an audio recognition technique. Currently, the technology has been developed on the Symbian Operating System, as a native application. This project aims to investigate and implement the porting of InTime Media's technology to Java™, and accelerating the ability of the company to provide full-scale services for its customers.

The work of the researchers will directly contribute to bringing this method of interactive broadcasting to market. In so doing they will expand knowledge about the performance of Java technology in this context and the boundaries of audio processing performance it offers, while also acquiring an understanding of both the requirements of broadcasters, and the intricacies of mobile handset hardware across diverse manufacturers.

The role of the Research Officer is to research and implement improvements to the company's unique audio recognition techniques, evaluating alternative digital audio processing and filtering algorithms within the constraints of the processor performance and the Java runtime environment on today's commercially available handsets.

Research Environment: This research programme is fully funded for two years and will be undertaken by GMIT and InTime Media Ireland Ltd, based in Castlebar, Co. Mayo with a research team of one Research Officer and one Postgraduate student.

Requirements/Background: The successful candidate will hold a Postgraduate degree or relevant industrial experience in audio data processing. Ideally, the candidate will have a good working knowledge of Java™ and creating applications for mobile phones.

Project Start-Date: June 2007

Project Duration: 2 Year Fixed Term

Conditions: €40,000.00 per annum.

Further Information on the Project: Mark Frain at mark.frain@gmit.ie or Maria Staunton at maria.staunton@gmit.ie

Please submit a detailed Curriculum Vitae along with a covering letter clearly indicating the project title to:

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Galway-Mayo Institute of Technology,
Dublin Road, Galway.
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Latest date for receipt of application is: 12 noon on Friday, 25th May 2007.