UNIVERSITY OF SUSSEX

1 Advertisement Ref: 1193

IT Services / Applications / Learning Systems & Multimedia
Multimedia Software Developer (Permanent, full time)
Salary range: starting at £32,004 and rising to £38,183 per annum
Expected start date: As soon as possible
Proposed date for interviews: Monday 28th November 2016

Sussex University has ambitious plans for learning and teaching, and we are looking for an excellent software developer with understanding of full-stack development and software deployment to join us in our quest to build great multimedia systems for our students.

You will be part of the Learning systems and Multimedia team with a primary focus on the design, development, maintenance and integration of key multimedia systems such as lecture capture.

You should have previous experience of full stack development, in projects that have had a broad impact on your organisation. We’d expect you to be an excellent programmer with sound skills in JavaScript including the ES2015 specification and frameworks such as Meteor, and to have experience of systems administration on Linux platforms. Most of all, you will be excited by emerging web technologies and have the ability to apply them creatively to building systems to support students' learning.

You will be required to design solutions to meet requirements, produce high quality technical design documentation, deliver new functionality using a mixture of proprietary software solutions and in–house development, and write code that is robust, structured and re-useable.

The role will be involved in the development of multimedia systems, including the University’s lecture capture solution. You will be responsible for maintaining and supporting our learning systems to a high standard, and integrating with other key university systems.

Essential Requirements for this role are:

- Experience of implementation and deployment of proprietary software solutions
- Experience of software integration
- Experience of providing support for proprietary applications and interfaces

Closing date for applications: 20 November 2016

For full details and how to apply see www.sussex.ac.uk/jobs

The University of Sussex is committed to equality of opportunity

2. Senior leadership and management

The Vice-Chancellor (Professor Adam Tickell) is the senior academic officer and, as Chief Executive, is responsible to the University Council for management of the University. He is supported by an executive group which includes the three Pro-Vice-Chancellors, the Registrar and Secretary, the Director of Finance and the Director of Human Resources. The Heads of the Schools of Studies at Sussex report to the Pro-Vice-Chancellors.
The Registrar and Secretary heads the Professional Services of the University. In addition, under the University Statutes, the Registrar and Secretary is Secretary to the University Council. The Director of Finance reports to the Vice-Chancellor. The Director of ITS reports to the Registrar and Secretary, and the Librarian reports to one of the Pro-Vice-Chancellors.

3. The School / Division

IT Services delivers a wide range of central and specialist Technology and Information Services to users across our Campus and beyond. We have 7 main teams delivering these services through a developing service management delivery model.

The Technology and Architecture office ensure our technologies, policies and standards are secure, up to date and that plans to replace, upgrade and improve our technologies and systems are aligned and prioritised around the University’s strategic plans and objectives.

Technical Operations, which runs the campus network and servers connected to it, designs the software environments installed on our staff and student workstations, provides third line support for users, and support for IT staff across campus.

IT Service Delivery provides service centre, desktop and teaching systems support, research support and IT training needs of our users and, in some cases, provides second line support for the users of our workstations.

Projects and Programme Delivery provides management and delivery of projects and major change programmes, and provides assurance through a central IT Project Management Office (PMO).

IT Applications designs, deploys, and supports the University’s business and teaching information systems including Student Management, HR, Finance, VLE.

Business Planning and Support Services is a newly created team that will support IT Services to enable and improve the services we provide in more efficient and effective ways. Coordinating the business plan for IT Services, and working with and alongside other functional managers, it ensures ITS both design and deliver the best services possible for the University.

Business Relationship Management ensures our stakeholders’ and users’ requirements are heard and understood to enable IT Services to prioritise initiatives and services around University plans and objectives, as well as providing alignment, advice and guidance to how IT Services can best support academic, research and professional services.

4. Job Description

Job Description for the post of: Multimedia Software Developer (ITS53)

Department IT Services
Purpose of the post:

Take part in the on-going development, integration and maintenance of systems including the University's lecture capture system and media management tools, and integrating of these services into the Virtual Learning Environment (VLE).

This will involve undertaking development and integration to a high standard, particularly as regards usability, security and data integrity and system testing.

Key Responsibilities:

1. Software Development
   - Liaise with key stakeholders to agree and document specifications for new software components.
   - Co-ordinate user testing and analyse and interpret the results.
   - Produce new programs, functions and configure systems to agreed specifications.
   - Provide enhancements to existing services.
   - Design, implement and configure integration between services.
   - Produce test plans and undertake testing.
   - Produce and regularly update technical documentation.
   - Provide a source of reference for knowledge and experience to assist in designing and building software multimedia solutions.

2. System administration
   - Work with Technical Operations to provide Linux desktop and server configuration and deployment for Multimedia Services
   - Maintain campus wide production services, primarily relating to lecture capture and video streaming to ensure service reliability.
   - Provide appropriate monitoring of services to ensure optimum availability.
   - Implement administration tools where required.
   - Implement appropriate system configuration to ensure the security of the services.

3. Management of e-learning systems
   - Undertake administration of e-learning systems, including the lecture capture system.

4. Design, Strategy and Research
   - Contribute towards the IT strategy for multimedia enhanced learning
• Work with Technical Architecture to design multimedia software solutions
• Identify innovative and emergent technologies and their potential use at the University, and liaise with the Technology Enhanced Learning team and with teaching staff to support their use.

5  Service Operations
• Provide technical expertise and trouble-shooting in response to requests from the Service Desk.
• Undertake fault-finding, and bug fixing for existing systems in response to Incidents and Problems.

6  Contribute to ITS wide projects
• Undertake tasks as identified by assigned Project Managers
• Manage appropriately defined projects as requested.

This Job Description sets out current duties of the post that may vary from time to time without changing the general character of the post or the level of responsibility entailed.

Date May 2016
Version 1.0

5.  Person Specification

Person Specification for the post of: Multimedia Software Developer

SKILLS / ABILITIES / KNOWLEDGE

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<th>Essential</th>
<th>Desirable</th>
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<tr>
<td>Strong skills in software development</td>
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<td>Sound systems administration / devops skills on Linux platforms preferably including package building, deployment and server security</td>
<td>X</td>
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<td>Knowledge of HTML5 and CSS3</td>
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<td>In-depth understanding of JavaScript including ES2015, JQuery, Backbone, etc.</td>
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<td>Familiarity with frameworks such as Meteor JS</td>
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<td>Web design, including for mobile platforms, using frameworks such as Bootstrap</td>
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<td>Understanding of how to consume data from web services in various formats</td>
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<td>Knowledge and understanding of building software that interfaces with databases, preferably with knowledge of MySQL, Oracle or NoSQL databases</td>
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<td>An understanding of emerging web technologies and an ability to apply them creatively to the enhancement of learning opportunities</td>
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<td>Understanding of how to write secure software for the web</td>
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Good written and verbal communication skills | X  
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A commitment to ensuring that all work is carried out within the various relevant local policies and legal frameworks | X  
Able to understand and empathise with the needs of students and staff and a desire to build systems that meet these needs | X  
Problem solving ability | X  

**EXPERIENCE**

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| Programming experience in two or more languages, preferably including PHP and Python | X  
Previous work experience of developing / integrating software for the web | X  
Experience of managing and administering a multimedia system in an enterprise environment | X  
Experience of digital and multimedia tools such as ffmpeg or Gstreamer | X  
Experience of using a full range of modern developer tools, including version control | X  
Experience of using unit testing / continuous integration / build tools | X  
Experience of liaising with a variety of stakeholders | X  
Experience of implementing and supporting learning technologies | X  
Experience of working within an HE institution | X  
Experience of working within and contributing to open source communities | X  

**QUALIFICATIONS**

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| Degree in software engineering or equivalent experience | X  

**PERSONAL ATTRIBUTES AND CIRCUMSTANCES**

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<th>Desirable</th>
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| Ability to develop new skills sets as required | X  
Able to work independently and as part of wider teams | X  
Able to manage time effectively and prioritise workload to meet objectives and deadlines | X  
Able to cope with multiple assignments and projects simultaneously in a high pressured environment | X  

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<th>Commitment to continuous improvement, challenges what and how things are done, learning from both success and mistakes</th>
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<td>A willingness to take part in local, regional and national initiatives and projects</td>
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