CANDIDATE BRIEF

Developer – Educational Technologies
Faculty of Medicine and Health

Salary: Grade 7 (£33,199 - £39,609 per annum)

Reference: MHIME1103

Closing date: 29 June 2019

Interview date: 9 July 2019

Fixed-term for 24 months

We are happy to consider job share applications and are committed to flexible working for all our employees.

Developer – Educational Technologies
School of Medicine
Leeds Institute of Medical Education

Are you interested in using your extensive software development skills in an innovative medical education and research environment? Are you enthusiastic and ambitious with a desire to be part of an interdisciplinary team delivering high quality regulatory compliant digital systems to support student education and research?

You will play a key role in the Technology Enhanced Learning (TEL) team, to support and build upon our development and research work. Our vision for Technology Enhanced Learning blends the best of traditional face-to-face teaching with the use of the latest technology to provide excellent student experience meeting the needs of each individual. You will join a unique environment that blends development and research in learning technology.

With an understanding of the Higher Education teaching and learning context, and an interest in working within a research and development environment, you will work with a wide range of stakeholders across the University and NHS, and be responsible for delivering and supporting technology enhanced learning services and systems. Strong initiative and organisational skills, are required for working within interdisciplinary teams on research and development projects, and you will be responsible for leading the development within each project to deliver new or improved technology enhanced learning services and systems. Experience of designing technical solutions against requirements specifications is essential. These systems will be embedded within the medical education programmes and will contribute to our ongoing TEL research work as their use and impact is evaluated.

Possessing expert knowledge of data manipulation and integration using Microsoft SQL Server Integration Services, you will also have a full understanding of ETL processes, Data Warehousing techniques and T-SQL. You will have extensive experience of web application development using the ASP.NET framework, web interface development using CSS, JavaScript / jQuery and Ajax.

Working in a highly regulated environment, this role will also involve liaising with University IT Services and ensuring services comply with regulatory requirements through adherence to standard operating procedures. You will also use your experience to provide support and guidance to other members of the team, sharing your expertise and supporting others to develop new skills.

What does the role entail?

As a Developer your main duties will include:

- Working as part of an interdisciplinary team to collaboratively design, develop, deploy and evaluate technologies to enhance and support medical education;
- Leading the development, testing and deployment within collaborative projects in medical education;
- Being the technical lead in participative design and development activities (such as co-design or usability sessions), bringing your technical perspective to the discussions;
- Evaluating current information systems and ensuring that University-approved applications and processes are used wherever possible;
- Participating in project team meetings and management group meetings by presenting technical updates, bringing your technical perspective, and contributing to the shaping of future discussions;
- Providing advice to colleagues on the technical feasibility of new project ideas and suggesting possible implementation options;
- Leading the design of technical solutions, including gathering service requirements, developing and presenting proposed solutions for sign-off;
- Taking specialist responsibility for handling service incidents, including diagnosing issues, designing, testing and deploying appropriate solutions;
- Providing regular updates to the Information Systems Manager and project steering groups;
- Undertaking training and development activities to ensure technical skills are kept up to date with industry standards in line with the technical strategic plans;
- Deputising for the Information Systems Manager where required;
- Establishing and maintaining sound working relationships with a wide range of individuals at all levels;
- Leading the development of relevant Standard Operating Procedures.

These duties provide a framework for the role and should not be regarded as a definitive list. Other reasonable duties may be required consistent with the grade of the post.

You will report to the Information Systems Manager.

What will you bring to the role?

As a Developer you will have:
- Expert knowledge of data manipulation and integration using Microsoft SQL Server Integration Services;
- A full understanding of ETL processes and Data Warehousing techniques;
- Extensive experience of web application development using the ASP.NET framework, for example MVC 5, Entity Framework and C#;
- Extensive experience of web interface development using CSS, JavaScript / jQuery and Ajax;
- Knowledge of database design principles including experience of T-SQL for defining database objects and querying data;
- Experience of sharing knowledge, supporting or mentoring other staff to develop new skills;
- An understanding of the Higher Education teaching and learning context and an interest in working within a research and development environment;
- Experience of gathering project requirements from diverse groups of stakeholders;
- Experience of designing and documenting technical solutions against requirements specifications;
- Strong initiative, with excellent organisational, planning and self-management skills, including the ability to work accurately and carefully, manage and complete projects to deadlines and deliver high quality work;
- Effective communication and interpersonal skills to work across a diverse range of collaborators / stakeholders, with an ability to explain technical problems in non-technical language.

You may also have:
- A BSc, equivalent qualification or relevant experience;
- Experience with object relational mappers, such as Entity Framework;

- Project Management experience (PRINCE2 / Agile);
- Some experience of other web application frameworks, such as Bootstrap;
- Experience of designing system testing plans;
- Working knowledge of PHP-based applications;
- Experience of Ux design best practices;
- Experience of co-design approaches;
- An understanding of the role of Technology Enhanced Learning in supporting education;
- Experience of working on technology enhanced learning research projects
- Knowledge of ITIL principles;
- Experience working in a regulated environment with sensitive personal medical data;
- Experience of working with Academic or Clinical Research staff;

How to apply

You can apply for this role online; more guidance can be found on our How to Apply information page. Applications should be submitted by **23.59** (UK time) on the advertised closing date.

Contact information

To explore the post further or for any queries you may have, please contact:
Richard Gatrell, Information Systems Manager
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Email: r.p.gatrell@leeds.ac.uk

Additional information

We use design-based research and participatory design principles in our work and develop our systems following an iterative methodology so that educational assumptions and theories can be tested. As a developer you are not expected to be expert or experienced in these research methodologies, but we would want you to be keen to engage in this part of the work as well, bringing your technical skills and experiences to these discussions.

Leeds University School of Medicine provides high quality medical education through undergraduate and taught postgraduate programmes. Through identification of high potential applicants and through our excellence in scholarship in Medical Education our aim is to develop outstanding graduates in Medicine. Our students will be inspired and transformed through their studies to become exceptional medical and medical education practitioners and leaders. Leeds Institute of Medical Education has an international reputation for research and innovation in the use of technology to support medical education.

Find out more about Leeds Institute of Medical Education and the Faculty of Medicine and Health.

Find out more about the Technology Enhanced Learning Team

Find out more about Athena Swan in the Faculty.

Working at Leeds
Find out more about the benefits of working at the University and what it is like to live and work in the Leeds area on our Working at Leeds information page.

Candidates with disabilities
Information for candidates with disabilities, impairments or health conditions, including requesting alternative formats, can be found on our Accessibility information page or by getting in touch with us at disclosure@leeds.ac.uk.

Criminal record information

Rehabilitation of Offenders Act 1974
A criminal record check is not required for this position. However, all applicants will be required to declare if they have any 'unspent' criminal offences, including those pending.

Any offer of appointment will be in accordance with our Criminal Records policy. You can find out more about required checks and declarations in our Criminal Records information page.