Web Developer
Department of Health Science

Closing date: 26 January 2018
Interview date: 14 February 2018
Vacancy reference: 6294
The York Trials Unit (YTU) is a UKCRC registered trials unit. We are seeking a highly motivated full-stack Software Developer to help lead software development projects in our Data Management team. The position requires a combination of technical expertise, creativity and strategic thinking. There will plenty of scope for initiative and innovation, coupled with access to many of the latest technologies. Applications are welcomed from candidates with a first or higher degree in computer-related discipline or, in exceptional circumstances, with substantial relevant experience at an equivalent level.
Main purpose of the role

To provide business systems, software support and maintenance/development for the communications, information and database systems and processes used to support the day-to-day operations within the Trials Unit.

Key responsibilities

(Role holders will be required to undertake some or all of the duties below)

- Design, develop and manage web-based systems and data reporting for clinical trials and the YTU randomisation service (using ASP.NET & SQL);
- Support development plans (including source control, QA, testing, change control and release management) and adhere to data protection and good practice guidelines regarding the security and confidentiality of information. This will include generating documentation for our data systems;
- Provide first line technical support and advice to the data management team, research secretaries, trial managers and external users of the systems;
- Ensure the integrity of the system(s) and contribute to the infrastructure necessary to maintain agreed levels of service provision and to support development plans, including source control, QA and testing, change control and release management;
- Contribute to the work of the data management team as a whole.
- Meet the requirements and agreed deadlines for each clinical trial;
- Adhere to security, standards and best practice in the design, development and management of web-based and data systems, including clean code principles and software development methodology;
- Work closely with colleagues (e.g. data management team, trial managers, research secretaries) who provide end-user support for web-based and internal systems;
- Communicate effectively with colleagues and liaise with users to identify process changes, to improve the efficiency of the service provided (including external collaborators) in order to ensure a high quality programme of work;
- Follow appropriate standard operating procedures and help input into the update of these, and other YTU procedures, as required;
- Attend Departmental meetings and participate in other committees and working groups where appropriate;
- Engage in continuous professional development;
- Undertake external commitments which reflect and enhance the reputation of YTU and the department.
- Assist with the development of communication, information and database systems
- Develop training manuals and organise and deliver training sessions, developing new training programmes for new and existing users of the system
- Supervise junior team members, allocating and monitoring work tasks and duties

JOB DESCRIPTION

At a glance

Salary Grade 6—£31,604-£38,832 per year

Hours of work Full time—37 hours per week

Contract type Fixed term—24 months

Based at York Trials Unit, Heslington Campus West
## PERSON SPECIFICATION

<table>
<thead>
<tr>
<th>Qualifications</th>
<th>Essential / Desirable</th>
</tr>
</thead>
<tbody>
<tr>
<td>First degree (usually 2:1 or above) in a computer-related discipline or, exceptionally, substantial experience at an equivalent level</td>
<td>Essential</td>
</tr>
</tbody>
</table>

### Knowledge

<table>
<thead>
<tr>
<th>Knowledge</th>
<th>Essential / Desirable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Working knowledge of ASP.NET development (Web Forms and MVC) using Microsoft Visual Studio and SQL Server</td>
<td>Essential</td>
</tr>
<tr>
<td>Working knowledge of a complex database system (such as a patient data or records management system)</td>
<td>Essential</td>
</tr>
<tr>
<td>Good understanding of clean code principles, design patterns and software development methodologies</td>
<td>Essential</td>
</tr>
<tr>
<td>Working knowledge of CSS3 (and, desirably, pre-processors), HTML5 and associated APIs</td>
<td>Desirable</td>
</tr>
<tr>
<td>Working knowledge of JavaScript and related frameworks (e.g. jQuery, Angular, React)</td>
<td>Desirable</td>
</tr>
<tr>
<td>Knowledge of administering Microsoft Windows Server, SQL Server and IIS</td>
<td>Desirable</td>
</tr>
<tr>
<td>Knowledge of clinical trials and MHRA requirements</td>
<td>Desirable</td>
</tr>
<tr>
<td>A good understanding of the requirements for data protection and how these relate to personal information</td>
<td>Desirable</td>
</tr>
</tbody>
</table>

### Skills, abilities and competencies

<table>
<thead>
<tr>
<th>Skills, abilities and competencies</th>
<th>Essential / Desirable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ability to effectively organise and prioritise own work and follow procedures in order to produce work to a high standard, to required deadlines</td>
<td>Essential</td>
</tr>
<tr>
<td>Ability to gather and interpret requirements, explain complicated and/or technical concepts in a way that is easily understood by non-specialists and to feed back an understanding of user requirements effectively</td>
<td>Essential</td>
</tr>
<tr>
<td>Excellent problem-solving skills, with the ability to take an organised and methodological approach to tasks and contribute to the improvement of processes</td>
<td>Essential</td>
</tr>
<tr>
<td>Excellent written and verbal communication skills, interpersonal skills and the ability to work effectively with people</td>
<td>Essential</td>
</tr>
<tr>
<td>Ability to work pro-actively on own initiative within the context of set standards and protocols</td>
<td>Essential</td>
</tr>
</tbody>
</table>
## PERSON SPECIFICATION

<table>
<thead>
<tr>
<th>Essential / Desirable</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Experience</strong></td>
</tr>
<tr>
<td>Experience of designing, developing and maintaining web-based and data systems using the full Microsoft .NET stack (including SQL)</td>
</tr>
<tr>
<td>Experience of team-based development (such as using VSTS, TFS, SVN or GIT)</td>
</tr>
<tr>
<td>IT skills, with the ability to use the full Microsoft Office suite (particularly Word, Excel, Access and PowerPoint)</td>
</tr>
<tr>
<td>Ability to use initiative to resolve problems and contribute to the improvement of processes</td>
</tr>
<tr>
<td>Ability to work pro-actively on own initiative within the context of set standards and protocols</td>
</tr>
<tr>
<td>Excellent written and verbal communication skills, interpersonal skills and the ability to work effectively with people</td>
</tr>
<tr>
<td><strong>Personal attributes</strong></td>
</tr>
<tr>
<td>Client-focused, proactive approach to work</td>
</tr>
<tr>
<td>Excellent attention to detail</td>
</tr>
<tr>
<td>Able to work on own initiative or as part of a team</td>
</tr>
<tr>
<td>Able to prioritise and manage own work in order to meet deadlines</td>
</tr>
<tr>
<td>Willingness to learn new technologies and a keenness for self-development</td>
</tr>
<tr>
<td>Enthusiasm, commitment and ability to produce consistently high quality work within tight deadlines</td>
</tr>
</tbody>
</table>
The Department is located in modern, purpose-built accommodation on the University's Heslington West Campus and includes 280 academics, teachers, researchers and support staff engaged in delivering research, professional development, education and training. Teaching and research programmes are underpinned by excellent administrative support systems for staff.

Our core aim is excellence in teaching and research, while contributing to improving health and healthcare through the application of our research to policy and practice. We are committed to having our teaching underpinned by our internationally renowned research. The University has an institutional research strategy [www.york.ac.uk/research/] to which the Department contributes by developing strong and well-resourced research groups.

Our research is characterised by: interdisciplinary and international collaboration; a robust scientific foundation; and relevance for policy and practice. The Department organises its research activities around six core themes: mental health and addiction (Professor Simon Gilbody); trials and statistics (Professor David Torgerson); public health and society (Professor Kate Pickett); cancer epidemiology (Professor Eve Roman); cardiovascular health (Professor Patrick Doherty); and health services and policy (Professor Karen Bloor).

We have strong research and teaching links with the Hull York Medical School (HYMS), supported through a number of HYMS posts embedded our Department. We also have strong links with other centres and departments at York, including the Centre for Health Economics (CHE) and the Centre for Reviews and Dissemination (CRD), as well as other leading UK and international centres of applied health research.

Our research focus is supported by access to and innovative use of population data (including Department-led patient-based data systems), in addition to intervention studies conducted by the Department's trials unit (York Trials Unit) and expertise in secondary data analysis, systematic reviewing and qualitative research. Academic disciplines represented in the Department include epidemiology, biostatistics, health economics, social policy, sociology and applied psychology. Our multi-disciplinary staff group also includes clinical academics involved in public health, primary care and mental health.

Our research rests on close partnerships with health and social care agencies and local and national government, in addition to various third sector organisations and international agencies, such as the World Health Organisation (WHO).

The Department has a strong culture of delivering research
impact and in doing research that makes a difference. A key object of our research is to ensure our work has high visibility and impact with national and international audiences. This includes producing evidence which enables practitioners and policy makers to develop more effective interventions and gain insight into how social and economic context mediates the experience of health and the provision of health care.

We are also concerned to develop more speculative and theoretically-informed work critically evaluating the underlying assumptions of policy and practice. To achieve these impacts, we work closely with practitioners, policy makers and other researchers to share knowledge and disseminate our findings. We are equally committed to public and civil engagement and in sustaining our partnerships with third sector organisations and non-Government organisations.

In 2015/2016 the Department’s research related income was over £6.8 million, with over 120 staff actively involved in research. Funding comes from a number of sources including the National Institute for Health Research (NIHR), the Department of Health, the Economic and Social Research Council (ESRC), Medical Research Council (MRC), the British Heart Foundation (BHF), Cancer Research UK, Wellcome and Bloodwise.

In the most recent assessment of research quality in the UK (the 2014 Research Excellence Framework), the Department, along with its partners, the Centre for Health Economics, the Centre for Reviews and Dissemination and the Hull York Medical School, was ranked 7th nationally in the subject area of public health, health services and primary care. Members of the Department also contributed to returns in Sociology (ranked first) and Social Policy (ranked third).

Eighty three per cent of outputs submitted by our academic staff members have been judged as world leading or internationally excellent in terms of originality, significance and rigour. Our impacts were also judged to be outstanding or very considerable in terms of reach and significance. The department was ranked equal first nationally for its research environment and all aspects of our research environment was judged to producing research of world-leading quality in terms of vitality and sustainability.

Integral to our mission is career support, including doctoral studentships and fellowships, as well as the supportive management of those reaching the end of their research contracts.

We currently have over 1000 enrolled students on our suite of health professional education programmes enjoying the highest standards of professional and academic training in a lively and stimulating environment.
At pre-registration level we offer a range of different approaches to studying nursing. Our three year BSc nursing programme spans all four fields of practice (Adult, Child, Learning Disability and Mental Health). We also offer a fast track route to registration for graduates wishing to undertake nursing as a second degree. The Post Graduate Diploma programme is a two year shortened programme for existing graduates wishing to undertake a pre-registration nursing programme in either Adult or Mental Health. We have also developed a 4 year Integrated Masters option for candidates wishing to register as either Adult or Mental Health nurses with a special interest in community and primary care.

We are a highly regarded provider of nurse education achieving status as number one in England for Nursing (2014) by The Guardian League Table. A number of our nursing students have been nominated for and won prestigious Student Nursing Times awards during their pre-registration studies with us. Department of Health Sciences has an international reputation in the area of evidence based practice and teaching across our professional programmes is specifically designed to allow candidates to apply this knowledge to clinical practice.

In terms of Midwifery we also offer a small BA (Midwifery) programme which is one of the most oversubscribed and popular programmes of its kind in the UK. This programme has a strong interpersonal caring focus and has achieved prestigious accreditation with UNICEF for being ‘Baby Friendly’.

Our Continuing Professional Development (CPD) / Specialist Skills Post Registration Development (SSPRD) programmes are designed to allow existing registrants to top up their clinical nursing skills in line with local and national health priorities such as long term conditions management, advanced nursing practice and primary care. On these programmes students balance part time study with work applying new knowledge to practice with the aim of enhancing patient care.

The content and delivery of our programmes is developed in partnership with local employers and is specifically designed to meet strategic workforce need locally and nationally. We have excellent relationships with our partner organisations across North Yorkshire in the NHS, not for profit and private healthcare sectors. Our graduates seeking work at the end of the programme achieve close to 100% employment within six months of qualifying and are held in high regard by employers locally and nationally. Each year a number of our graduates choose to take up employment in prestigious national teaching hospitals such as Addenbrookes Hospital in Cambridge, The Christie Hospital in Manchester, Great Ormond Street Hospital in London and The Maudsley Hospital.

We currently have over 200 postgraduate students in our Graduate School which provides a vibrant, multidisciplinary learning environment. We offer a diverse range of full- and part-time taught and research-based postgraduate degrees designed for those wishing to develop and follow a career in public health, health services research and other health-related areas.

With respect to the taught programmes available, we have a Master in Public Health which runs in association with the Hull York Medical School, is suitable for students from a wide variety of disciplines who wish to pursue careers as public health practitioners or work in governmental or non-governmental organisations, both in the UK and overseas. The Department also offers an MSc in Applied Health Research which is particularly relevant for science and social science graduates interested in a career in health services research and health professionals who wish to develop their research skills. Many students from both programmes go on to complete PhD studies. In addition, we run an on-line MSc in International Humanitarian Affairs which allows field practitioners to engage with, and explore the fast-changing, contemporary debates over the theory, policy and practice of humanitarian affairs.

Our PhD students are embedded in one of our research groups and have the flexibility to tailor their studies to pursue their own research interests, and a bespoke training programme is designed in conjunction with the supervisory team to support the development of essential subject-specific and transferable skills for their future careers.

For more details about the Department of Health Sciences and our teaching and research activities please visit our website: http://www.york.ac.uk/healthsciences/
Founded on principles of excellence, equality and opportunity for all, the University of York opened in 1963 with just 230 students. In 2017 it is the home of more than 17,000 students across more than 30 academic departments and research centres. Since opening over fifty years ago, we have become one of the world’s leading universities and a member of the prestigious Russell Group.

We are consistently recognised as one of the leading Higher Education Institutes and one of just six post-war universities which appear in the world top 100 (2013-14) and 15th in the Times & Sunday Times league table (2016). The University of York has won six Times Higher Education (THE) Awards and five Queen’s Anniversary Prizes.

The University is proud of its association with Athena SWAN, holding 12 awards in support of gender equality, representation and success for all, with gold awards for Chemistry and Biology and a University-wide bronze award.

Of 154 universities that took part in the Research Excellence Framework (REF) in 2014, The University of York ranked 14th overall and 10th for the impact of our research. The University is consistently in the top ten UK research universities and attracts over £60m a year of funding from research alone.

Our vision is to make the University of York a world leader in the creation of knowledge through fundamental and applied research, the sharing of knowledge by teaching students from varied backgrounds and the application of knowledge for the health, prosperity and well-being of people and society.
THE UNIVERSITY

Attractive workplace

Centred around the picturesque village of Heslington on the edge of the city of York, our colleges are set in an attractive landscaped campus. York enjoys a safe, friendly atmosphere with facilities including bars, shops, theatres and concert halls all within easy walking distance.

The University has undergone an unprecedented period of expansion and renewal since 2000. We have invested in twenty new buildings on the original campus and have completed the first and second phases of a £750m campus expansion. Our investment in new colleges, teaching and learning spaces, laboratories, research facilities and a new sports village mean there has never been a better time to join us.

During this period of change we’ve worked hard to retain our friendly, informal and collegiate atmosphere, which is important to our core values of inclusivity and interdisciplinarity.

We have a thriving international community and are committed to providing staff moving to York with as much support as possible through our Relocation Package and Welcome Officers.

The University aims to offer a nurturing and supportive environment as an employer. Flexible working hours, nursery facilities, childcare vouchers, cycle to work scheme, generous holidays and an attractive pension scheme all make the University of York one of the region’s leading employers.

For further information please visit our employee benefit pages.
THE CITY AND THE REGION

The City of York

Internationally acclaimed for its rich heritage and historic architecture, York’s bustling streets are filled with visitors from all over the world. Within its medieval walls you will find the iconic gothic Minster, Clifford’s Tower and the Shambles - just a few of the many attractions.

But York isn’t just a great place to visit - it’s also a great place to live and work. While nourishing a vibrant cosmopolitan atmosphere, York still maintains the friendly sense of community unique to a small city.

Visit www.visityork.org for more information on the city of York.

Shopping, culture and entertainment

York boasts specialist and unique boutiques but also all the high street stores on its busy shopping streets. Alongside them you will find cinemas, theatres, an opera house, art galleries, a vast range of restaurants, live music venues and clubs. York is particularly renowned for its multitude of pubs and bars, from the modern to the medieval.

Housing and schools

Whether you choose to live close to the city, in one of the surrounding villages or further afield, you will find a wide range of housing within comfortable distance of York and the University. For families, the area has a range of excellent schools both in the state and independent sector.

Great location

York is one of Britain’s best-connected cities. Halfway between London and Edinburgh on the East Coast mainline, on intercity trains you can reach London King’s Cross in less than two hours and Edinburgh in two and a half hours. York is also well served by road links, and it is easily accessible from the A1, M1 and the M62.

For those travelling from overseas, Manchester Airport is two hours away and Heathrow Airport just three and a half. Flights from nearby Leeds Bradford Airport provide easy access to mainland Europe. By Eurostar from London St Pancras, Paris is just over six hours away.

Yorkshire

The Lonely Planet guide recently declared Yorkshire the third best region in the world to visit. There is something to cater to every taste, whether it be the rugged landscapes of the Moors or the Dales, the picturesque seaside towns of Scarborough and Robin Hoods Bay, the gothic architecture of Whitby or the vibrancy of cosmopolitan Leeds.
Apply online

- Go to https://jobs.york.ac.uk
- Find this job using reference 6294
- Complete the online application form

You will need to submit your completed application by midnight (local UK time) on 26 January 2018

What will I need?

We will ask you for details of:

- your employment history
- relevant qualifications
- two referees

You need to be ready to show us how you meet the requirements of the job, either in a written statement and / or by answering questions.

Help and assistance

Direct any informal queries to Matthew Bailey (tel 01904 321874 or email: matthew.bailey@york.ac.uk)

If you have any questions about your application, contact the HR Services team:

recruitment@york.ac.uk
+44 (0)1904 324835