Web/Systems Developer

Department of Health Sciences

Closing date: 12 August 2018

Interview date: To be confirmed

Vacancy reference: 6890
INTRODUCTION

We have an exciting opportunity for a .NET Web System Developer to join the existing PCMIS team and play a key role in developing and supporting PCMIS, an innovative Case Management System, as well as developing new digital health solutions, integrated web services and patient portal technologies designed to support mental health and related health care services for external NHS and Mental Health organisations. Working closely with the lead developer and the existing PCMIS Team, you will be responsible for the development and system support and will investigate development and implementation of PCMIS, patient portals and associated web technologies to NHS partners, Mental Health organisations and health related charities.

PCMIS supports over 12,000 health care professionals in the UK and Australia, providing services to NHS as part of the national Improving Access to Psychological Therapy (IAPT) programme, as well as children and young person services, military veterans, HE student services, research trials and a range of other healthcare services. PCMIS aims to make a difference to public wellbeing through the use of innovative evidence based research to improve patient care and well-being across care pathways.

A graduate, you will have experience of supporting and developing and deploying digital health solutions, be customer focused, coupled with good organisational, problem-solving and interpersonal skills.
Main purpose of the role

Working within the existing PCMIS support team, the post holder will be required to design and test large-scale digital health services to meet customer requirements, in a post which requires a combination of technical expertise, creativity and strategic thinking. You will be part of a small team that works closely to achieve the highest standards of technical excellence and customer support. There will be plenty of scope for initiative coupled with access to many of the latest technologies.

In addition to day-to-day development and management of the PCMIS Services, you will contribute to the design and deployment of integrated digital health web services. Over the coming year you will be required to work closely with NHS clients to development portal services and interoperability benefits for services.

Key responsibilities

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

- Working with lead PCMIS Developer to design and implement web based digital health systems, patient portals, integration platforms, databases and reporting to support PCMIS product development and customer requirements;
- Manage and develop the infrastructure necessary to maintain agreed levels of service provision and to support development plans, including source control, testing and release management;
- Provide training, support and advice to PCMIS 2nd line team;
- Manage individual projects as directed
- Ensure consistency of information provided on the web with that communicated via other channels
- Report to relevant Department/team committees as required and undertake projects for them as required.
- Research new developments in web and digital health technologies and work with the PCMIS team to advise the PCMIS Director on the potential and applicability of such developments.
- Track developments in database and web technologies and standards.
- Ensure optimal availability, security and performance of web infrastructure
- Work closely and supportively with other systems and database administrators and with colleagues who provide end-user support for web-based services; will act as project manager for specific projects;
- Provide cover for critical systems

JOB DESCRIPTION

At a glance

<table>
<thead>
<tr>
<th>Salaries</th>
<th>£31,604—£38,832 a year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hours of work</td>
<td>Full time, 37 hours a week</td>
</tr>
<tr>
<td>Contract type</td>
<td>Fixed term—2 years in the first instance</td>
</tr>
<tr>
<td>Based at</td>
<td>Heslington Campus West</td>
</tr>
</tbody>
</table>

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Ensure optimal availability, security and performance of web infrastructure

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## PERSON SPECIFICATION

<table>
<thead>
<tr>
<th>Qualifications</th>
<th>Knowledge</th>
<th>Skills, abilities and competencies</th>
</tr>
</thead>
<tbody>
<tr>
<td>Degree in Computer Science or related discipline</td>
<td>Knowledge of database and web technology including Microsoft ASP.Net (VB/C#), Microsoft Visual Studio, Microsoft SQL Server, JavaScript/jQuery, AJAX and CSS</td>
<td>Skilled in the programming languages .NET and JavaScript/jQuery</td>
</tr>
<tr>
<td>ITIL foundation certified</td>
<td>Knowledge of web based applications in a health care environment</td>
<td>Able to administer Microsoft SQL Server and IIS web server to a basic level of understanding</td>
</tr>
<tr>
<td></td>
<td>Knowledge of Mental Health or Health related research areas</td>
<td>Understanding of systems development methods and database design</td>
</tr>
<tr>
<td></td>
<td>Knowledge of NHS England Improving Access to Psychological Therapy Programme (IAPT) and associated Mental Health Datasets</td>
<td>Able to communicate with (verbal and written) colleagues with varying degrees of IT literacy;</td>
</tr>
</tbody>
</table>

### Essential

- Skilled in the programming languages .NET and JavaScript/jQuery
- Able to administer Microsoft SQL Server and IIS web server to a basic level of understanding
- Understanding of systems development methods and database design
- Able to communicate with (verbal and written) colleagues with varying degrees of IT literacy;
- Able to explore and interpret end user requirements and communicate with end users in a non-technical style
- Able to maintain a high level of accuracy while working to tight deadlines
- Able to work independently, as part of a team and/or under supervision.
- Able to prioritise between several projects and task appropriately
- Able to use initiative in problem-solving
- Ability to organise, prioritise and present work

### Desirable

- Degree in Computer Science or related discipline
- ITIL foundation certified
- Knowledge of web based applications in a health care environment
- Knowledge of Mental Health or Health related research areas
- Knowledge of NHS England Improving Access to Psychological Therapy Programme (IAPT) and associated Mental Health Datasets
- Knowledge of data security protocols, MVC Web API Services, JSON, XML and HL7
**PERSON SPECIFICATION**

<table>
<thead>
<tr>
<th>Experience</th>
<th>Essential / Desirable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Experience of delivering a professional IT service involving web systems development</td>
<td>Essential</td>
</tr>
<tr>
<td>Experience of working in a customer focused IT team</td>
<td>Essential</td>
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<tr>
<td>Experience of planning, testing, documenting and implementing new IT systems using a rigorous, methodical approach</td>
<td>Essential</td>
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<tr>
<td>Prioritising across several projects and support tasks simultaneously</td>
<td>Essential</td>
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<tr>
<td>Experience of providing high quality customer support</td>
<td>Essential</td>
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<tr>
<td>Previous experience working in a system development role in the NHS or Health related sector</td>
<td>Desirable</td>
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<tr>
<td>Experience of working with IAPT or Health Care datasets and reporting needs Key Performance Indicators and national data submissions</td>
<td>Desirable</td>
</tr>
<tr>
<td>Experience of supporting digital health applications</td>
<td>Desirable</td>
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</table>

**Personal attributes**

| Willingness to learn new technologies                                      | Essential             |
| Prepared to travel in the UK to attend courses and conferences on occasion | Essential             |
THE DEPARTMENT

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

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 £6.2 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.
THE DEPARTMENT

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/](http://www.york.ac.uk/healthsciences/)
THE UNIVERSITY

Founded on principles of excellence, equality and opportunity for all, the University of York opened in 1963 with just 230 students. In 2018 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 are ranked 16th in the Times & Sunday Times league table (2017). 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 is committed to promoting a diverse and inclusive community - a place where we can all be ourselves and succeed on merit. We offer a range of family friendly, inclusive employment policies, flexible working arrangements, staff engagement forums, campus facilities and services to support staff from different backgrounds.

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 6594
- Complete the online application form

You will need to submit your completed application by midnight (local UK time) on 12 August 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 Byron.george@york.ac.uk

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

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