



Job title	Web Application/Database Programmer (PHP/MySQL)	Job family and level	Administrative, Professional and Managerial Level 4
School/ Department	School of Medicine, Academic unit 1, Mental Health & Clinical Neuroscience	Location	Queens Medical Centre Campus

Purpose of role

To develop/support software and systems for clinical trials, primarily relating to stroke research in line with regulatory requirements, research governance policies and requirements of the funders.

	Main responsibilities (Primary accountabilities and responsibilities expected to fulfil the role)	% time per year
1	<p>Design and implementation of web-enabled clinical trial database systems</p> <ul style="list-style-type: none"> ▪ Provision of bespoke programming to ensure that data capture tools meet the needs of specific research studies ▪ Ensure evidenced compliance of all database builds to: <ol style="list-style-type: none"> 1. The medicines for Human Use (Clinical Trials) Regulations, SI 2004, 1031 (and all subsequent amendments) 2. The UK Policy Framework for Health and Social Care Research, 2017 3. The UK Data Protection Act, 2018 4. ICH: GCP 5. The Society of Clinical Data Management guidelines and standards 6. The Sponsor's SOP's and policies 7. All other regulations pertinent to the conduct of research ▪ Collaborate with Chief Investigators, statisticians, trial management staff and NHS sites to achieve suitable and effective database builds ▪ Complete database build activities including cross functional review of electronic data capture platforms, Case Report Form content, review of specifications, validation and facilitate user acceptance testing ▪ Provide full audit trails of all such activities 	50%
2	<p>Maintenance of web-enabled clinical trial database systems</p> <ul style="list-style-type: none"> ▪ Monitor data collection and data cleaning, tracking study metrics and targeted data reviews ▪ Presentation and demonstration of project deliverables 	20 %

	<ul style="list-style-type: none"> ▪ Meet and liaise with project staff and database users to discuss database issues as necessary ▪ Participate in regular trial management/database meetings and reviews 	
3	<p>Trial Data Management</p> <ul style="list-style-type: none"> ▪ Assist statisticians and researchers in preparation of data reports for trial committees ▪ Assist statistician in the oversight of database lock activities and archiving of study data ▪ Carry out data transfers and conduct data reviews ▪ Assist researchers in entering study results onto trial registries and ensure compliance with registry guidelines and mandates ▪ Ensure that all clinical research data activity is ICH: GCP compliant and conducted in accordance with agreed study protocols ▪ Participate in statutory inspections by Medicines and Healthcare products Regulatory Agency (MHRA) and internal and other external audits 	20%
4	<p>Other:</p> <ul style="list-style-type: none"> ▪ Evaluation of relevant new technologies and procurement of software and software tools ▪ Ensure programming knowledge is updated and appraisal/development goals are met 	10%

Person specification

	Essential	Desirable
Skills	<ul style="list-style-type: none"> ▪ Web development skills, including HTML and CSS and experience in design, implementation and maintenance of web-enabled databases and associated technologies ▪ Advanced PHP programming, SQL and Linux/Unix skills ▪ Well organised and able to prioritise conflicting tasks and meet operational deadlines ▪ Code documentation skills ▪ Strong written and verbal communication skills ▪ Problem solving skills ▪ Self-reliant and have the confidence to write PHP and solve simple problems quickly 	
Knowledge and experience	<ul style="list-style-type: none"> ▪ Knowledge of relational database design ▪ Knowledge of DOM ▪ Experience with JavaScript ▪ Current experience of PHP based web development ▪ Knowledge of computer security ▪ Knowledge of system analysis and design methodology 	<ul style="list-style-type: none"> ▪ Knowledge of DICOM ▪ Experience with AJAX ▪ Experience of automated testing ▪ Experience with REDCap
Qualifications, certification and training (relevant to role)	<ul style="list-style-type: none"> ▪ Relevant degree, preferably in Computer Science/Applied Mathematics or equivalent ▪ Proven track record or experience in a relevant role 	<ul style="list-style-type: none"> ▪ GCP training
Statutory/legal		<ul style="list-style-type: none"> ▪ Awareness of university procedures and relevant legislation



The University strongly endorses Athena SWAN principles, with commitment from all levels of the organisation in furthering women's careers. It is our mission to ensure equal opportunity, best working practices and fair policies for all.

Expectations and behaviours

The University has developed a clear set of core expectations and behaviours that our people should be demonstrating in their work, and as ambassadors of the University's strategy, vision and values. The following are essential to the role:

- Valuing people** Is always equitable and fair and works with integrity. Proactively looks for ways to develop the team and is comfortable providing clarity by explaining the rationale behind decisions.
- Taking ownership** Is highly self-aware, looking for ways to improve, both taking on board and offering constructive feedback. Inspires others to take accountability for their own areas.
- Forward thinking** Driven to question the status quo and explore new ideas, supporting the team to "lead the way" in terms of know-how and learning.
- Professional pride** Sets the bar high with quality systems and control measures in place. Demands high standards of others identifying and addressing any gaps to enhance the overall performance.
- Always inclusive** Ensures accessibility to the wider community, actively encouraging inclusion and seeking to involve others. Ensures others always consider the wider context when sharing information making full use of networks and connections.

Key relationships with others



