UK Kidney Association
Job description

Job Title: Systems Developer
Department/section: Systems / Operations
Reports to: Senior Developer / Head of Operations

General information
Improving lives by supporting professionals in the delivery of kidney care and research, the UK Kidney Association is the leading professional body for the UK renal community. We welcome members working in clinical renal care, treating and caring for people with kidney disease, and those working in research, or related sciences and fields.

The UK Renal Registry is the part of the UK Kidney Association responsible for the collection, analysis, management and development of a high quality clinical renal database. We use data submitted from the 71 adult and 13 paediatric renal centres across the country to create the database. The information, in the form of data and reports, is a shared resource used to develop research into kidney disease to improve the quality of care for renal patients.

The Job
The systems team members apply their skills and where necessary learn new skills to support the development and maintenance of a number of bespoke organisational systems and applications, whilst also helping staff to make best use of the technologies available to them.

Often with more than one project on the go at the same time, all projects are progressed effectively with effective time management. Key tasks are identified below.

Work as member of the team to
1. Provide development, design & support for various internal systems and software
2. Be responsible for integrating systems and databases with other software applications
3. Manage requirements capture and design optimal solutions, presenting these within the team for further refinement.
4. Contribute to development discussions and changes.
5. Configure and deploy software applications and in house software & systems
6. Ensure all change requests are properly managed and documented through to delivery
7. Produce efficient and effective code
8. Ensure all code and processes are well documented
9. Investigate improvements to algorithms and speed of processes.
10. Create programs and algorithms that contribute towards machine learning and AI development
11. Improve the user interfaces on tools to ensure they assist the users in their tasks.
12. Contribute towards the effective maintenance, documentation, update and security of the IT infrastructure, including:
   I. Websites, code and data portal
   II. CI server based on Bamboo ensuring new code repositories are added to the build cycle and all processes are documented
   III. Servers and databases
13. Contribute to quality control by recommending improvements to processes, practices, or software that help maintain or increase data quality.

Project management
14. Work with the relevant senior manager or assigned project manager to agree delivery parameters, including scope and timescales.
15. Develop robust plans outlining project objectives, technical requirements, scope, resources required and timeline.
16. Develop and maintain effective working relationships with stakeholders, communicate effectively, attend meetings, to ensure project is delivered within specified parameters.
17. Report and escalate risks as appropriate to senior team.
18. Monitor for future functionality and implement updates as required to maintain effectiveness.

General
15. Write exports and reports of data for internal and external use.
16. Identify and implement best practice including following the secure by design recommendations for Health systems.
17. Ensure that information governance standards are maintained, and compliance with relevant legislation including the General Data Protection Regulation, National Opt out and other research-based consents.
18. Document working practices and UKRR systems procedures to ensure effective working.
19. Train and support colleagues / new starters, as appropriate.
20. Undertake any other occasional, or ad-hoc duties, as required by management.
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Person specification
This description encompasses a number of roles and we are looking for people who can offer some of the skills detailed, but are willing to learn skills in other areas as the roles develop.

All roles would require the equivalent of at least a first degree level of qualification ideally with experience in handling medical data.

All members of the team would be expected to demonstrate some of the following

| An open-minded and innovative attitude to delivery, to ensure the most effective and appropriate tools and solutions are used. |
| A willingness to learn new technologies and move out of comfort zone to develop new processes |
| A willingness to understand the data and how it is used and validated |
| Proven effective planning, administrative and organisational skills |
| Team worker, including diplomacy and proven success working with different types of people |
| Able to demonstrate problem solving/initiative |
| High level of interpersonal skills with proven ability to communicate with a wide range of stakeholders at all levels |
| Demonstrable experience of effective record keeping and procedure writing |
| Any understanding of Renal terminology and data would be beneficial |

To deliver our systems effectively, the following competencies or similar skills are required

| Previous experience working successfully in a systems development role, or similar |
| Knowledge and experience of programming languages, including Python, SQL (PostgreSQL, MS SQL) and Django |
| Knowledge of other languages / tools would also be an advantage, including Java, .NET tools (C#). |
| Proven experience in developing software for windows and linux using MS Windows |
| Demonstrable knowledge and experience of Linux (RedHat/CentOS/Ubuntu) would be an advantage. |
| Knowledge and experience of Angularjs, Angualr.js, Vue.js or similar web frameworks |
| Knowledge, understanding, experience of healthcare technologies, such as Mirth, HL7, FIHR, CDA, would be advantageous |
| Proven experience of effective software / systems testing |
| Experience of CI and automated build systems |
| Proven experience of change control management |
| Ability to document clearly deployment and usage of code would be beneficial |
| Experience of DevOps and systems administration (windows and/or linux) would be an advantage |
| Any Knowledge of system/server monitoring (sensu/uchiwa/grafana) would be beneficial |

To deliver web development effectively, the following competencies are of benefit

| Web CMS experience, (Wordpress Django Drupal) front end development, |
| Rest api design |
| Angular, javascript, vue.js, react |
| Python, SQL, git, other languages |
Other relevant information

Some UK travel may occasionally be required with occasional overnight stays to provide support at UKRR meetings or events or in the course of normal duties.

Equality and diversity aims
As a member of staff you have a personal responsibility to ensure you do not discriminate, harass or bully or contribute to the discrimination, harassment or bullying of any colleague(s) or visitors or condone discrimination, harassment or bullying by others.

Risk management
Staff at all levels have a responsibility for ensuring that risks are managed, as an employee you will be expected to maintain a high level of awareness and assist in the process of reporting incidents, assessing risks and reporting unsafe occurrences and to co-operate with any investigations undertaken.

Health and safety
Under the Health and Safety at Work Act 1974, as an employee, you must take reasonable care for the health and safety of yourself and for other persons who may be affected by your acts or omissions at work. The Act also states that you must not intentionally or recklessly interfere with or misuse anything provided in the interests of health, safety and welfare. As an employee you are required to report all accidents to the General Manager.

Information security and confidentiality
During the course of your employment you may have access to, see or hear information of a confidential nature and you are required not to disclose such information, particularly relating to patients or staff. All person identifiable information must be held in the strictest confidence and should be disclosed only to authorised people in accordance with NHS Confidentiality Guidelines [Caldicott] and the Data Protection Act 2018 unless explicit written consent has been given by the person identified, or where information sharing protocols allows it.

General information
This job description is not intended to be an exhaustive list of duties, but it aims to highlight the typical main responsibilities of the post. It may be reviewed from time to time in agreement with the post holder.

Approved by: ___________________________ Date: ___________________________

Accepted by: ___________________________ Date: ___________________________