University of Edinburgh

Job Description

1. Job Details

Job title: e-Science Grid Web Application/Database Programmer

School/Support Department: School of Medicine and Veterinary Medicine

Unit (if applicable): Division of Clinical Neurosciences

Line manager: IT Manager

2. Job Purpose

Provide software application programming and design services for the Edinburgh Stroke Exemplar project, part of the multi-centre NeuroGrid project.

3. Main Responsibilities

<table>
<thead>
<tr>
<th>Approx. % of time</th>
<th>Task</th>
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<tbody>
<tr>
<td>70</td>
<td>1. Provide computer programming services required to implement software applications and systems</td>
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<tr>
<td>10</td>
<td>2. Evaluate and select technologies employed to support development of project applications and systems</td>
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<td>5</td>
<td>3. Create specifications and designs to guide application and system development</td>
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<td>10</td>
<td>4. Liaise with other project teams to agree system specifications and resolve technical issues</td>
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<td>5</td>
<td>5. Provide technical support to application and system users</td>
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4. Planning and Organising

The job holder prioritises and schedules all software-related work for the project. This requires negotiating with other NeuroGrid project teams to create mutually acceptable timelines.

5. Problem Solving

The job holder applies experience in software development to create solutions necessary to meet project goals. This requires evaluating and applying best-practice methods as well as devising innovative new strategies.
6. Decision Making

The job holder has sole responsibility for software application design and implementation decisions related to the project. The IT Manager provides consultation and guidance on issues related to system hardware and deployment.

7. Key Contacts/Relationships

The job holder interacts with technical and research staff from all NeuroGrid projects to collaborate on system specifications, to resolve technical issues, and to provide application support.

8. Knowledge, Skills and Experience Needed for the Job

**Essential:**
- 7 years as software developer
- 5 years in web application development
- 3 years in lead technical role, with experience of technology evaluation and assessment
- Strong experience with Microsoft SQL Server 2000 and ASP 3.0
- Proficiency in at least one object-oriented programming language
- Good oral and written communication skills
- Ability to work alone and unsupervised

**Desirable:**
- Some background in scientific research
- Exposure to Java programming language and J2EE platform
- Interest in grid computing environments
- Prior work with DICOM medical images

9. Dimensions

The job holder works as a peer member of the overall NeuroGrid project, which is comprised of approximately 30 members spread over 9 project teams at 5 UK institutions. The applications and systems developed for NeuroGrid may eventually be utilised by hundreds of research groups, both within the UK and around the world.

10. Job Context and any other relevant information

N/A