## PERSON SPECIFICATION – SCIENTIFIC DEVELOPER

**MatSci Team - Scientific Software Engineer – C++**

<table>
<thead>
<tr>
<th>Qualifications</th>
<th>Essential</th>
<th>Desirable</th>
<th>Method of assessment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Higher education qualification in science, mathematics or computer software development <em>or equivalent experience</em></td>
<td>E</td>
<td></td>
<td>CV + Int</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Experience</th>
<th>Essential</th>
<th>Desirable</th>
<th>Method of assessment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Experience with cross platform software development</td>
<td></td>
<td>D</td>
<td>CV + Int</td>
</tr>
<tr>
<td>Experience of writing code in C++</td>
<td>E</td>
<td>3+ years</td>
<td>CV + Int + A</td>
</tr>
<tr>
<td>Experience working in a professional software environment</td>
<td>E</td>
<td></td>
<td>CV + Int</td>
</tr>
<tr>
<td>Good code design skills such as object-oriented design</td>
<td>E</td>
<td></td>
<td>CV + Int + A</td>
</tr>
<tr>
<td>Appreciation of professional programming practices (source control, documentation, unit testing etc.)</td>
<td>E</td>
<td></td>
<td>CV + Int + A</td>
</tr>
<tr>
<td>Experience working on GUI design &amp; User Experience (knowledge of the Qt Application Framework is an advantage)</td>
<td>D</td>
<td></td>
<td>CV + Int</td>
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<tr>
<td>Experience with Python</td>
<td></td>
<td>D</td>
<td>CV + Int</td>
</tr>
<tr>
<td>Experience of Agile development methodologies</td>
<td></td>
<td>D</td>
<td>CV + Int</td>
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<table>
<thead>
<tr>
<th>Personal Skills and Abilities</th>
<th>Essential</th>
<th>Desirable</th>
<th>Method of assessment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Expert problem solving skills</td>
<td>E</td>
<td></td>
<td>CV + Int + A</td>
</tr>
<tr>
<td>Excellent interpersonal skills</td>
<td>E</td>
<td></td>
<td>CV + Int</td>
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<tr>
<td>Ability to work to tight deadlines and manage complex workload</td>
<td>E</td>
<td></td>
<td>CV + Int</td>
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<tr>
<td>A desire and aptitude to learn additional technologies</td>
<td>E</td>
<td></td>
<td>CV + Int</td>
</tr>
<tr>
<td>A pro-active, self-motivated person, comfortable taking responsibility and working in a team</td>
<td>E</td>
<td></td>
<td>CV + Int</td>
</tr>
<tr>
<td>Comfortable communicating with non-developer scientists with understanding of their motivations and challenges</td>
<td>E</td>
<td></td>
<td>Int</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Knowledge</th>
<th>Essential</th>
<th>Desirable</th>
<th>Method of assessment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ability to comprehend scientific challenges relevant to our customers</td>
<td></td>
<td>D</td>
<td>CV + Int</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Disposition and Attributes</th>
<th>Essential</th>
<th>Desirable</th>
<th>Method of assessment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Excellent oral and written communications skills</td>
<td>E</td>
<td></td>
<td>CV + Int</td>
</tr>
<tr>
<td>Practical, pragmatic approach to work</td>
<td>E</td>
<td></td>
<td>CV + Int</td>
</tr>
</tbody>
</table>

E – Essential, D – Desirable, Int – Interview, A – Assessment