

## PERSON SPECIFICATION

### Software Engineer – Database Technologies Specialist

	Essential	Desirable	Method of assessment
<b>Qualifications</b>			
Higher education qualification in science, mathematics or computer software development <i>or equivalent</i>	E		CV + Int
<b>Experience</b>			
Expert with SQL	E	3+ years	CV + Int
Experience of writing code in C++	E	2+ years	CV + Int + A
Experience with Python		D	CV + Int + A
Proven track record in relational database design	E	3+ years	CV + Int + A
Experience of ORM technologies	E		CV + Int
Experience working in a commercial software environment	E		CV + Int
Expertise in data modelling		D	CV + Int
Experience of testing <ul style="list-style-type: none"> <li>- data integrity</li> <li>- benchmark performance</li> </ul>		D	CV + Int
Appreciation of professional programming practices (source control, documentation, unit testing etc.)	E		CV + Int + A
A keen understanding and appreciation of data security best-practise		D	CV + Int
Familiar with technologies relevant to delivery of our products (e.g. SQLite, MS SQL Server)		D	CV + Int + A
Familiar with challenges of scientific data		D	CV + Int
Familiar with state-of-the-art in chemical databases		D	CV + Int
Experience of multiple database models (Relational, Graph, Key-Pair, Object, Document, ...)		D	CV + Int
Experience of database refactoring and data migration	E		CV + Int
Familiar with Database Lifecycle Management		D	CV + Int
Experience of Agile development methodologies		D	CV + Int
<b>Personal Skills and Abilities</b>			
Expert problem solving skills	E		CV + Int + A
Excellent oral and written communications skills	E		CV + Int
Excellent interpersonal skills	E		CV + Int
Ability to work to tight deadlines and manage complex workload	E		CV + Int

A desire and aptitude to learn additional technologies	E		Int
A pro-active, self-motivated person, comfortable taking responsibility and working with limited supervision	E		CV + Int
Ability to understand scientific challenges relevant to our customers		D	CV + Int

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