Position Description

Scope of Position (i.e. projects involved with and role within group):

- Participate in software development and modeling support to the modeling community and to enable efficient science project delivery through effective use of the Scientific Computing (SC) environment.

Day to Day Responsibilities:

- Linux/Windows/Mobile software development projects improving productivity of scientists/modelers and allowing models to be used by internal customers;
- Write and maintain relevant support documentation;
- Prepare and deliver relevant user training;
- Ability to support a wide variety of software needs (ISV, Open Source, Visualization centric programs)

Travel requirements (please note if international):

- None

Hours of work/work schedule/flex-time:

- Mon-Fri, regular business hours 8h/5d;

Education and Experience (minimum required for consideration)

- BS/BE+ in materials science, computer science, mathematics, physics or related discipline;
- 2+ years of data science, software development or modeling experience and positive customer interactions;

Required Skills (These are skills that candidates must possess)

- Background in or familiarity with one or more scientific disciplines (e.g. physics, chemistry, or engineering) and some knowledge of data science;
- Strong functional and object-oriented programming skills in one or several mainstream languages such as C, Java, C++, C#, or Fortran (C is highly desirable);
- Knowledge of scripting languages (e.g., Python) and any other programming languages (e.g., HTML, JavaScript, and PHP);
- Knowledge of mathematical and statistical computing programming languages (MATLAB, R);
- Working knowledge of databases and SQL;
- Working knowledge of Linux and Windows operating systems;
- A foundation in software design principles and an ability to design and create code as necessary;
- Ability to communicate with and understand the complex requirements of scientists, engineers and professional staff in the deployment of scientific computing solutions;
- Ability to analyze, optimize, and debug scientific codes.
### Desired Skills (these are the skills that would be nice for candidates to possess)

- Skills in materials science, composition, or inorganic chemistry;
- Knowledge of languages for scientific computing in Windows and Linux environments (such as C/C++, Fortran, Java);
- Knowledge of Android and iOS mobile platforms;
- Familiarity with Microsoft Visual Studio (and .NET or WPF);
- Experience providing user support or code development support in scientific computing environment;
- Experience compiling and running codes on high-performance computers;
- Knowledge of MPI, OpenMP, or other parallel/distributed computing paradigms;
- Experience with revision control systems (e.g., Git);
- Experience with agile development approaches, automated unit testing / test-first design.

### Soft Skills (Communication/Team/Leadership)

- Strong interpersonal and communication skills and ability to work as a team player is required;
- Proactive and solution-oriented problem solver;
- Customer focused and committed to helping engineers & researchers and projects be successful;
- Clear dedication to excellence and advancing beyond the current state.

### Additional Information

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<th>Is this an Addition or Replacement?</th>
<th>Addition</th>
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<td>How Many Openings For This Position?</td>
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