



# Example of Research Staff Member Job Description

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Our innovative and growing company is looking to fill the role of research staff member. We appreciate you taking the time to review the list of qualifications and to apply for the position. If you don't fill all of the qualifications, you may still be considered depending on your level of experience.

## Responsibilities for research staff member

- Conduct simulations and analysis of the sensitivity of the WATCHMAN detector
- Develop experimental methods, separation techniques, and analysis approaches needed to collect and isolate radioactive isotopes produced at accelerator facilities
- Develop experimental methods for uniformly distributing radionuclides within solid matrices
- Perform sample and data analysis and interpret results
- Conduct original research in geomechanics, shock physics, compressible CFD and organize and analyze data from research and field experiments
- Publish research results in technical reports and peer-reviewed journals and present technical results at scientific conferences, and travel as required to coordinate research with internal and external collaborators and sponsors
- Work independently part of a scientific team and interact with physicists, mathematicians, geologists, and seismologists to design and implement creative solutions to challenging research projects
- Develop independent research projects as demonstrated through publication of peer-reviewed literature
- Perform large-scale simulations and convergence studies to validate a new generation of hydrodynamics, material strength, radiation transport, CFD and multiphysics coupling codes
- Perform large-scale simulation codes to provide detailed simulation studies

codes and participate in the development of the V&V and Uncertainty Quantification (UQ) methodology

## Qualifications for research staff member

- Programming experience in Java, Python, C++
- Modeling in information retrieval and statistical analysis with unstructured data, social media analytics, fraud detection analytics, recommender systems, or Education
- Ability to use and extend existing machine learning frameworks, scikit-learn, TensorFlow
- Experience with programming skills in higher-level programming languages such as C/C++, Java/Scala, or Python
- Ability to implement software for use by internal Researchers external Researchers using cloud quantum computing platforms
- Demonstrated product level experience in non-volatile memory technologies a must