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# Example of Research Scholar Job Description

Our growing company is looking to fill the role of research scholar. 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 scholar

* Author/co-author publications
* Perform basic research on numerical optimization of computationally expensive black-box problems
* Explore approaches for integrating uncertainty quantification methods in efficient optimization algorithms
* Interact with researchers external to CCSE to explore and extend the applicability of the developed algorithms
* Work in a multidisciplinary team environment including mathematicians, computer/computational scientists, and domain scientists
* Author peer-reviewed journal articles and contribute to research proposals
* Become an essential member of a multi-institutional, diverse team of applied mathematicians, computational and computer scientists, and astrophysicists who are working together to develop astrophysics codes and algorithms for next-generation high performance computer architectures
* Perform software and algorithmic development for massively parallel astrophysics codes
* Perform scientific investigations of supernova progenitor models
* Analyze the on-node performance and inter-node scalability characteristics of Fusion Energy, Catalysis, Genomics, Graph Analytics, and/or Sparse Direct Solver codes when running on supercomputers built from thousands of GPUs or manycore processors

## Qualifications for research scholar

* Experience writing grants
* Undergraduate or graduate degree in a quantitative science
* Highly proficient in at least one programming language
* Clinical degree a plus
* Advanced understanding of, and practical experience using advanced analytical equipment for materials science research including but not limited to, TEM, SEM, EBSD, XRD, TOF-SIMS, differential scanning calorimetry
* Applicants must demonstrate an ability to carry out independent research