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# Example of Postdoctoral Associate Job Description

Our innovative and growing company is looking to fill the role of postdoctoral associate. Thank you in advance for taking a look at the list of responsibilities and qualifications. We look forward to reviewing your resume.

## Responsibilities for postdoctoral associate

* Determining the molecular basis of epigenetic changes in DNA methylation and chromatin structure in response to low-dose irradiation in Arabidopsis and Brassica species
* Adaptation of innovative, single-molecule epigenetic and epigenomic assays to map the locations of DNA methylation, nucleosomes, and transcription factor binding in mammalian systems to plants
* Attending an annual meeting to disseminate research findings and progress
* Flow Cytometry and molecular biology techniques in support of immunology applications
* Primary tissue and cell isolation
* Design of gene expression vectors and cell transformation
* DNA isolation and PCR for genotyping
* Perform real time PCR reactions for purposes of data acquisition
* Provide technical and administrative support to lab
* Perform guided research on agrobacterium using BiFC, confocal microscope, comet assay and tumor assay

## Qualifications for postdoctoral associate

* Some background with the concepts of Quantum Information and Computation or knowledge of many-body techniques/Quantum Field Theory
* Under the direction of the Principal Investigator, design and conduct experiments related to cancer signaling and biology
* Data analysis and participate in manuscript writing for publication
* Train new personnel as needed
* Studying water properties and ocean circulation as a function of time and space, using both observations from the Argo array and other sources model fields
* He or she will also be responsible for processing data, analyzing and interpreting the results, presenting findings at scientific meetings and publishing the results in scientific journals