**Big Data Engineer/Senior Cluster Software Developer**

**Location: Livermore, CA**

**Duration: 6-18 Months**

Our Direct client looking for a Sr level Architect to do POC and the implement it if accepted. Consultant would show them a roadmap to store all the Data. They currently have 100’s of sensors moving to 1000’s and then hundreds of thousands of sensors in a couple years.All going to Oracle currently, need to set up Hadoop.  
  
The candidate will apply breadth and depth of knowledge to develop and improve high performance and Big Data Intensive (e.g. Hadoop/Spark) compute infrastructure and parallel file system environment. The work will not be clearly defined and is expected to be independent.

**Responsibilities**

* Participate in the design and implementation of multiple Linux-based HPC, Hadoop/ Big Data Infrastructure and Parallel file system servers and clusters.
* Build, configure and maintain multiple RAID controllers and disk enclosures systems.
* Deploy and maintain Hadoop/Big Data and database storage Infrastructures.
* Monitor installation of software releases, patches of the operating system, third-party utilities with emphasis on overall system security.
* Monitor and implement Splunk / Nagios and other performance/monitoring technologies.
* Troubleshoot and determine root cause of complex system issues that may involve interfacing with various technical staff in multiple organizations and with differing levels of expertise.
* Respond to system problems and user questions in person, email and incident management system.
* Analyze and performance tune compute, network, file system and disk sub-systems.
* Investigate, evaluate, test and recommend technical solutions for future systems.
* Develop tools and procedures to monitor and automate system tasks on servers and clusters.
* Perform all assignments in accordance with the ES&H, security, and business practice requirements and policies.

**Required Qualifications**

* BS in computer science or related field or equivalent level of demonstrated knowledge
* Extensive Linux/UNIX system administration experience.
* Demonstrated proficient communication, interpersonal skills, and ability to work and communicate effectively with other technical staff and end users across the Laboratory.
* Experience working in a rapidly changing environment with competing priorities and demonstrated ability to work effectively under limited guidance.
* Experience with Linux/Unix systems including installation, configuration, networking, backups, updates and patching, and system security.
* Experience with or knowledge of Big Data technologies such Hadoop MRv2, Yarn, Storm, Spark, HDFS, NFS, Lustre.
* Experience with software container technologies such as Docker and Singularity
* Demonstrated understanding of scripting and programming languages such as C/C++, Java, Perl, Python, Expect and bash/csh/ksh.
* Experience with disk and storage systems such as hosts based RAID controllers, software RAID and vendor RAID systems (eg., NetApp, HP, Hitachi, etc.).
* Experience with version control and configuration management systems such as Subversion, git, chef, puppet, cfengine, Atlassian Tools, etc.
* Experience with incident and bug management systems such as ServiceNow, bugzilla, Jira, etc.
* Ability to work off-hours and on-call (intermittently either as needed or as part of a rotation).
* Significant experience supporting multiple independent but inter-related systems and software packages.
* Significant experience with virtualization environments and tools such as libvirt, KVM,Vmware, etc.
* Significant experience using and developing solutions and plugins for monitoring systems such as Splunk or Nagios.
* Demonstrated ability to provide innovative solutions to broadly defined tasks and problems and to interact with system developers and vendors.
* Advanced verbal and written communication skills necessary to effectively collaborate in a team environment and present and explain technical information and provide advice to management.
* Demonstrated ability to work effectively with minimal guidance while using independent judgment.

**Desired Qualifications**

* MS in Computer Science or related field with 8 years of related experience and demonstrated knowledge.
* Experience with local, parallel and distributed file systems such as Ext4, ZFS, GPFS, Lustre, PVFS, Gluster, etc.
* Experience with NAS platforms such as NetApp, HNAS, etc.
* Experience with database systems such as MySQL, Oracle, DB2, etc.
* Experience with container orchestration frameworks such as Kubernetes, Mesos, etc.
* Experience with IaaS technologies – AWS, OpenStack, etc.