



Job Title: Scientific Consultant  
Reports to: General Manager, Government Services  
Status: Exempt (salaried)

### **Job Summary**

The Scientific Consultant provides a range of consultation services to BioTeam customers for the development and implementation of research computing solutions, including high performance computing and bioinformatics, for the purpose of enabling the scientific mission of our customers. This position works collaboratively with other BioTeam consultants and customers to provide unbiased IT, bioinformatics, and organizational solutions that best fit customers' requirements.

### **Essential Duties and Responsibilities**

- Provides consulting support for BioTeam's customers in the areas of research IT Infrastructure (including HPC, cloud, storage, and networking), IT Services, Bioinformatics, and organizational effectiveness to support the organizations' scientific missions.
- Designs, architects, and implements research computing infrastructure solutions
- Participates in the scoping, execution, and documentation of broad-scale assessments that cover research computing infrastructure, bioinformatics portfolios, and IT services in scientific environments
- Participate in the scoping, development, and writing of project proposals
- May participate in BioTeam driven projects, such as proof of concept research projects, product development, and software projects

### **Additional Duties**

- Other duties as assigned

### **Essential Competency Requirements**

- Initiative to analyze and resolve problems quickly, efficiently and collaboratively
- Demonstrated strategic project and work planning organization and control; non-authority leadership; interpersonal communications skills, problem-solving; decision-making
- Values professional ethics and prioritizes honesty in the face of conflict, and will prioritize what is right for the customer over their own preconceptions

### **Supervisory Responsibilities**

This job does not supervise any employees.

## **Minimum Qualifications**

### **Education and/or Experience**

- Minimum of B.S. in a life sciences or computer sciences related field, M.S. preferred
- 1+ years of experience administering research computing environments (i.e. – HPC, storage, system administration)
- 3+ years of experience in Linux system administration
- 3+ years of experience in bioinformatics, preferably next generation sequence analysis or genomics
- Demonstrated experience in distributed resource management (DRM) systems in the context of HPC clusters (i.e. – SGE, SLURM, PBS, Torque/Maui, etc.)
- 1+ years experience with parallel or clustered high-volume storage systems like GPFS, Lustre, Ceph, OneFS (minimum of 100TB total storage volume, prefer 1+ PB)
- 1+ years experience in layer 2 networking applicable to scientific environments (prefer switch configuration experience, knowledge of TCP/IP frames, understanding of high-performance data transfer protocols)
- 3+ years experience in at least one of the following programming languages: C, C++, Java, Perl, Python, Ruby and demonstrated abilities in shell scripting
- Knowledge of DevOps automation systems such as Chef, Puppet, and Ansible
- Demonstrated configuration and administration of NFSv3 and NFSv4
- Demonstrated experience working in datacenter environments
- Experience with the R statistical package
- Experience in linux-based database administration (i.e. – MySQL, PostGreSQL, Oracle)
- Working knowledge of biological systems concepts and statistical analytics

### **Language Skills**

This role demands excellent verbal and written skills with a demonstrated ability to navigate difficult political environments.

### **Certificates, Licenses, Registrations**

Linux administration certifications are a plus (i.e. – Red Hat Certified System Administrator or Engineer)

### **Additional Information:**

- Will be expected to travel between 25-50%, including day and overnight travel
- Access to a major airport (such as Austin, Houston, Dallas)
- Able to provide own working space and telecommunications connections (i.e. – home office with telephone, high-speed internet with a secured network)
- Has or able to qualify for government or customer security clearance
- Participate in marketing activities such as blogging and public speaking (i.e. – conferences and trade shows)

**Physical Demands**

Percentage of time spent performing the following:

Condition	None	Less than 33%	33% - 66%	Over 66%
Stand	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Walk	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sit	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Use Hands to finger, handle or feel	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Reach with hands and arms	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Stoop, kneel, crouch, or crawl	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Talk or hear	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Lifting up to 10lbs	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Lifting up to 25lbs	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Lifting up to 50lbs	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Lifting up to 100lbs	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Specific duties that require the physical demands selected above are as follows:  
 Unboxing and installation of computer equipment at client locations and employee’s home office.

**Work Environment**

Generally, the work environment is the employee’s home office and at client locations (may include offices and/or data center environments) that are moderately noisy.

Percentage of time spent working in the following conditions:

Condition	None	Less than 33%	33% - 66%	Over 66%
Work near moving mechanical parts	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Risk of electrical shock	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>