## **Job Title**

Senior HPC Systems Engineer

### Who We Are

Boston Limited has been providing cutting edge technology since 1992 using Supermicro® building blocks. Our high performance, mission-critical server and storage solutions can be tailored for each specific client, helping to create your ideal solution.  From the initial specification, solution design and even full custom branding – we can help you solve your toughest business challenges simply and effectively.

Since its founding in London, UK, Boston has expanded operations globally. Following on from the successful launch of Boston IT Solutions India in 2009, Boston launched Boston Server & Storage Solutions GmbH in Germany a year later, with offices also opening on the West and East coast, USA in 2012.

Boston's high performance, mission-critical server and storage solutions can be tailored for each specific client. We help you create your ideal solution - customising the specification, design and even full custom branding - helping you solve your toughest business challenges simply and effectively.

### What it means to work for us

We endeavour to be the best in our field and to achieve this we look for a range of talented individuals, ensuring that they feel valued throughout their employment with us – because we want our team members to get up in the morning excited to come to work – where work doesn’t feel like work! Through great workplace practices and ensuring our employees are well-supported and encouraged to continuously learn and grow.

As an employee of Boston, you can look forward to working in a dynamic environment where no two days are the same. The workforce is lively and enjoy benefits such as;

* Pension scheme
* Healthcare Insurance
* Life insurance
* Regular Companywide team building activities and events
* Perkbox
* Weekly free fruit deliveries
* Cycle Scheme
* Subsidised gym memberships
* Employee of the Month / Year
* Flexible working scheme
* 21 days holiday excluding bank holidays which can go up to 30 by earning more over time

## **Job Description**

We are actively seeking a high performing HPC systems engineers to help drive our HPC division and continued expansion in the UK, US, Germany and India. This is an all-encompassing role, which will provide successful candidate with a variety of workload across all segments of the HPC space. This role provides the opportunity to make a direct and visible contribution to the continued success of our company, both financially and culturally. In this role, you will join an experienced team of technical and presales professionals, with a remit to bring new products to market, engage with customers and partners in deploying HPC technologies and support and maintain existing customer HPC systems, including internal HPC clusters. Full Training will be provided to the candidate to ensure they can fulfil the duties of the role below and ongoing training will be part of the role also to ensure a high level of knowledge maintained.

## **Markets & Customers**

Your markets will include some of the world’s most innovative organisations in industry, and academia. In this role you will be working closely with technology partners that are designing some of industries leading technologies (such as Intel, Mellanox, Nvidia etc) and you will be expected to work closely with customers to facilitate their leading edge applications, in fields such as Engineering, Exploration, Physical Sciences, Health, Finance and Media/Internet.

## **Responsibilities & Scope**

The role is a deeply technical role that spans system administration right through to benchmarking and application optimisation – and everything in between. You will deliver the full portfolio of Boston HPC products and services, and will be contribute towards all aspects of HPC business generation within the region, addressing both new and existing customer opportunities. You will be responsible for maintaining existing in house HPC infrastructure and growing this over time and customising internals systems for customer needs. You will be responsible for certain product ranges and will be required to work with marketing and sales in bringing these products to market. This will include putting together web material, spec sheets, promotional material and writing blogs on our bostonlabs blog site. The role is ideally suited to candidates that a self motivated and want to become HPC experts in a leading HPC solution provider.

## **Experience, Knowledge & Skills**

* Experience in scientific computing
* Data mining / Hadoop experience or understanding of concepts
* HPC cluster experience (setup or use)
* MPI programming and understanding
* Understanding of GPU and accelerator technologies
* Experience in alternative low power architectures such as ARM
* Shell scripting – bash, perl or python or any combination
* C/C++ - not necessary of coding but able to compile / build open source applications / libraries. A few open source examples: VASP, OpenFOAM etc
* Exposure to MPI (message passing interface) codes and libraries
* Experience in managing servers remotely
* Experience of Linux Cluster Management (ie: XCAT or Bright)
* Experience of managing high volumes of servers
* Experience with network base provisioning tool such as Ansible, Puppet, cobbler, kickstart, preseed etc

## **Please note, all these skills are expected in the candidate**

Role:

* Build / customize and deploy cluster for customer end to end (a turnkey solution)
* Liaise with customer to finalize cluster deployment and customization
* Support new and existing customers
* Support the pre sales function and work alongside the partners and the sales team
* Liaise and help out Production during cluster build / proving test
* Actively engage in Hardware qualifying for HPC production
* Actively engage in Tender process
* Perform benchmarking for new hardware (ie: cpu. Network/Raid controller etc or tender requirement)
* Present on Boston Solutions at events or customer meetings
* Travel will be required as part of the role (for events and customer meetings)

The successful candidate will have some industry experience and background of the education sector with scientific / research relevance.

### Academic Qualification (Mandatory)

* BSc in Computer Science of equivalent
* MSc in HPC (or equivalent)

### Personal Skills

* Good communication skills, verbal and written
* Customer facing
* Able to be a team player
* Able to form good working relationships with internal and external customers
* Commercially astute
* Strong eye for detail
* Able to work under pressure
* Full driving license preferable

*Last Reviewed 25/04/2022*