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## HPC Engineer, AI Infrastructure

### Job Location

United States  
Remote work from: USA

### Base Salary

USD 40 - USD 50

### Employment Type

Full-time, Part-time

### Description

Tesla's Supercomputing/AI infrastructure team works directly with the high-performance computing and machine learning infrastructure on which our ML algorithms run; this includes virtual simulations, Autopilot hardware, silicon design, and Dojo. With the rapidly-growing need for more data and optimized compute resources, cluster builds are getting larger and increasingly complex. Continued development/automation of deployment, monitoring, self-healing and alerting processes is imperative to the success of our engineering groups. As the scope and impact of our Tesla Bot, Full-Self-Driving (FSD) & Robotaxi efforts continue to scale, so does the value of this team and its work.

As an HPC Engineer, you will be responsible for maintaining and improving our platform to ensure our Full-Self-Driving (FSD), Tesla Bot & Dojo engineering teams have the necessary tools and resources to be productive. This includes managing/operating our AI infrastructure, monitoring compute/GPU/network metrics, Linux troubleshooting & performance tuning, and collaborating with our Data Center team to coordinate the smooth operation of hundreds of servers & bring up new GPU capacity. Your work will directly facilitate neural network training at scale, streamline FSD development, and enable Dojo to become the most powerful supercomputer to date.

### Responsibilities

- Support the AI/ML cluster infrastructure on both GPU and Dojo platforms, focusing on systems automation, configuration management and deployment at scale
- Improve our monitoring & self-healing pipelines, as well as security posture
- Work with hardware and storage vendors to tune and optimize our server, storage and network performance
- Performance tuning & OS provisioning on Linux systems
- Manage HPC clusters, workloads and applications
- Automation and systems engineering
- Participate in 24x7 on-call rotation

### Hiring organization

Tesla

### Date posted

October 15, 2024

### Valid through

31.05.2025

### APPLY NOW

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