

Request for Proposal for Database Development

Introduction

Neural Forge is leading the way in advanced GPU engineering, and we are dedicated to powering the future of artificial intelligence. Our mission is to elevate the GPU market by developing more efficient, powerful chips to aid our customers.

We participate with researchers, enterprises, and other companies around the world to create GPUs that will deliver performance and reliability. By constantly improving and staying committed, Neural Forge will help to harness organizations' full power of artificial intelligence to create a smarter and more connected future.

Project Description

To ensure continued growth and competitiveness in the GPU manufacturing market, our company must consistently meet quarterly and annual production targets. At present, production data from our 12 manufacturing sites across the nation is difficult to consolidate and analyze efficiently. Each site operates multiple assembly lines producing different chip models, but we lack a unified system to track chip output in real time and identify performance trends.

We require a relational database system that can record and organize production data — including the number and type of chips produced per assembly line, per hour, per day, and over longer periods. Additionally, the database must log assembly line downtime, whether due to maintenance, outages, or other disruptions, allowing us to better assess how these events impact overall productivity.

The new system should automate data collection, securely store it in a structured relational database, and provide executive-level dashboards for monitoring production performance. The dashboards and generated reports will help leadership visualize trends, compare production across sites, and pinpoint operational bottlenecks. Ultimately, this solution will enable more informed decision-making and support our strategic goal of maximizing manufacturing efficiency and output reliability.

Scope of Work:

The ideal candidate will:

- Create both a back-end and visualized dashboard using the following languages:

- Asp.Net with C# code
 - Utilizing MySQL
 - MySQL relational table structure
 - Tableau for visualizations
- Create secure pipeline between database and dashboard
- Automate data entry from plants around the nation
- Respond to feedback from key staff
- Instruct key staff on the use and maintenance of system.

This is a one-time project; ongoing management of the system will be the responsibility of NeuralForge. The project should be done within two months of beginning the contract.

Proposal Requirements:

A proposal should include the following information:

- Current resume
- Experience in database development
- Known programming languages
- Other qualifications
- Quote

All proposals should be send to Merrick Shorter at shorterm@ohiodominican.edu. Proposals will be accepted until a suitable candidate is found.