

Proposal for Continuing Computer Science Fall Term Project

1. Company Background

The Office of Design and Construction, at the Colorado School of Mines is responsible for the following items on the university campus.

- Project Management
- Engineering and Architectural support
- Cost Estimating
- Project Feasibility Analysis
- Code Evaluation/Compliance
- Research and other Equipment Purchase Reviews
- Student project support
- Research Grant input/support
- Coordination with City of Golden Engineering, Storm Water management and Fire Department
- Liaison with and State Delegated authority for the Office of the State Architect
- OSA reporting for Facility Audit, Space Inventory, Real Estate, and Capital and Controlled Maintenance
- Emergency Controlled Maintenance requests and annual CM request

2. Project Description

We would like to have a Project Management Software developed. This system would help our office track projects, which we have over 100 new projects per fiscal year. This system would track data that we would input, and then we would be able to extract this data into an Excel spreadsheet. Reporting and tracking are the two key elements we need. We would have the availability to pull ad-hoc reports, consisting of multiple data areas. This program would track funding, and normal accounting items; including purchase orders, invoices, by project and by date. This project tracking system was started by a CS Team from Summer Session. They were able to set up a basic data base, were able to download data and retrieve it using a web application that I believe interfaces with Mines Multipass authentication. They have created a We would like to expand this basic setup, to a full working database, possibly adding more data items. If possible, the goal is to have a complete system that we can implement and maintain.

3. Desired Skill Set

We are looking for students that have interest in creating a useful application. We are searching for creative students, with the ability to think outside the box, and maybe find additional uses, that we may have not thought about. This is an interesting project, the students will learn about how Mines construction projects are created, implemented and closed.

4. Preferred Team Size

The preferred team size, may be 4-5 students.

5. Internship Opportunity

We are looking into the possibility of an internship, after the project is complete. This internship, would help maintain the system.

6. Location for Work

Students can work on or off campus on this project, and the ITS department is available to help with questions regarding IT infrastructure.