

Proposal for Computer Science 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; 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. There are many programs available, however, they are too large and cumbersome. We are not trying to manage multiple construction projects from design to building, we have specific requirements that cannot be met by the very large project management systems.

This project may take more than one session to complete. We can set it up to have certain goals met at the end of Summer Session, with the possibility of the next phase of this program moving onto a new team in the Fall, if necessary.

3. Desired Skill Set

We are hoping for students that have interest in creating a useful application. This can be an interesting project, the students will learn about how projects are created, implemented and closed. With campus planning, design and construction.

4. Preferred Team Size

3-5 students.

5. Internship Opportunity

Unfortunately there are not any intern opportunities available with this project.

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.