

### **Project Submission Form**

Company/Agency Name: \_\_\_\_\_

Address: \_\_\_\_\_ City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Contact Person: \_\_\_\_\_ email: \_\_\_\_\_

Project Description 100 – 150 words (attach separate sheet if necessary)

**Please see below for specific project requirements**

#### **Expectations and Deliverables**

Each project will typically involve a team of 3-4 students over a 15 week semester, under the supervision of a faculty member. This equates to approximately 400 person hours of effort. Although results are dependent on many variables, would be expected to fulfill the expectations of the unique projects and produce deliverables as appropriate within a mutually-agreed upon time schedule.

#### **Sponsor Requirements**

A successful project requires that the sponsoring organization assign a motivated individual to oversee and interact with the students throughout the project duration. The most critical factors to a successful project are communication and commitment. This requires an approximate commitment of 1-2 hours/week as well as attendance at two on-campus presentation events.

#### **Capstone Design Projects - Parameters and Constrains**

##### ***Construction Engineering:***

- The proposed projects should have more than 200 activities. Upcoming or recently completed industrial, commercial, and highway projects are examples of projects.
- Students should be able obtain the plans and specifications of the projects
- The following is a suggested list of tasks which the students need to complete during their capstone design experience:
  - Work Breakdown Structure (WBS)
  - CPM Network Plot/Reports
  - Detailed Estimate (Contractor View)
    - Labor, Equipment, Material, Overhead, Contingency, Profit
  - Construction Methods, Detail and Design

- Project Management System
  - Data collection, Safety Plan, Reports
- Technical report
- Oral presentation

***Civil Engineering:***

- The proposed projects should incorporate at least two focus areas of study (Construction, Environmental, Geotechnical, Transportation, and Structure)
- The following is a suggested list of tasks which the students are expected to complete during their capstone design experience:
  - Planning and site development
  - Modeling and analysis
  - Design and detail different components
  - Environmental and Transportation issues related to the proposed project
  - Technical report
  - Oral presentation

Note:

Currently, the Civil and Construction Engineering Program at Western Michigan University focuses on five areas; Construction, Environmental, Geotechnical, Structure, and Transportation.

**For more information please contact [cce-programs@wmich.edu](mailto:cce-programs@wmich.edu) or call the department at (269) 276-3210.**