UC DAVIS ARBORETUM PATHWAY
REHABILITATION PROJECT
Request for Qualifications

RFQ - Version 1.0
Published: October 16, 2015
RFQ Deadline: November 23, 2015

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1.0 PROJECT OVERVIEW

The 2016 Construction Competition is a design-build project focusing on the construction of concrete aprons at intersections between asphalt and decomposed granite pathways. Five sites have been selected for these improvements at the Acacia Grove in the UC Davis Arboretum (see Figure 1).

1.1 Project Scope

Through an eight-month process, teams are expected to act as construction firms by preparing the following:
- A construction bid
- A construction schedule
- Traveling to UC Davis to construct the designed concrete aprons
- An AutoCAD illustration of the site and project

1.2 Project Goals

This project is intended for students interested in construction management and the construction industry. The project is a real construction project, improving existing pathways and providing benefits to the community and handicap accessibility. As this is a real construction project, participants should be prepared for any changes requested by the client. Frequent communication between the competition administrator and project teams will be paramount.

The competition itself encompasses skills including:
- Exposure to the design-bid process
- Construction management
- Project management
- Cost estimating
- Appropriate handling of basic construction tools
- Presentation skills (written and oral)
- Development of working drawings specifications
- Design revising based on clients feedback

We are optimistic about the construction competition and are open to the possibility of alternating hosts in the future.

1.3 Client and Site

The client of the project is the UC Davis Arboretum. Founded in 1936, the UC Davis Arboretum is a vast 100 acres of gardens and home to over 22,000 exotic trees and plants. The UC Davis Arboretum has allowed the American Society of Civil Engineers
(ASCE) to design and construct five concrete aprons.

The location of the concrete apron improvements is to be held at the Acacia Grove where asphalt paths meet decomposed granite paths (see Figure 2). Each particular site contains different elevations, angles, geometry and lengths. The curbs themselves are positioned uniquely in each case with varying slopes (see Figures 3 and 4).

1.4 Project Tentative Timeline

This project is expected to span a course of eight months and consists of two phases: a design phase and construction phase.

1.4.1 Design Phase

<table>
<thead>
<tr>
<th>Year</th>
<th>Month</th>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>2015</td>
<td>October</td>
<td>8</td>
<td>Request for Qualifications Released</td>
</tr>
<tr>
<td></td>
<td>November</td>
<td>23</td>
<td>Request for Qualifications Deadline</td>
</tr>
<tr>
<td></td>
<td>December</td>
<td>-</td>
<td>Design Specifications Released</td>
</tr>
<tr>
<td>2016</td>
<td>January</td>
<td>31</td>
<td>Design Submittal Due</td>
</tr>
<tr>
<td></td>
<td>February</td>
<td>TBA</td>
<td>Designs Reviewed</td>
</tr>
</tbody>
</table>

Please note that dates are subject to change. Announcements will be made via email if any changes are needed. Sites will be assigned based on a lottery system.

1.4.2 Construction Phase

Due to site limitations, only 5 teams will be able to compete in the construction phase. Team selections will be based on the Design Submittal and judged based on criteria in the Design Specifications.

<table>
<thead>
<tr>
<th>Year</th>
<th>Month</th>
<th>Date</th>
<th>Event</th>
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</thead>
<tbody>
<tr>
<td>2016</td>
<td>February</td>
<td>-</td>
<td>Construction Practice Period</td>
</tr>
<tr>
<td></td>
<td>March</td>
<td>-</td>
<td>Construction Practice Period</td>
</tr>
<tr>
<td></td>
<td>April</td>
<td>TBD</td>
<td>Competition (possible)</td>
</tr>
</tbody>
</table>

A poll will be sent out following the RFQ deadline to find a weekend that works best for participating teams. The construction event will be held in April 2016 at UC Davis. The event is expected to span 2 days.

Please note that dates are subject to change. Announcements will be made via email if any changes are needed.
1.5 Social Events

Aside from the construction aspect of the project, there will be social events for all teams to meet, greet and enjoy great food. Social events include but are not limited to:

- Ice Cream Social
- Barbeque at the Arboretum
- Non-competitive construction competitions including granite pathway filling
- Teamwork based activities including concrete crafting

2.0 REQUEST FOR QUALIFICATIONS

This document provides a brief overview of the competition project and requests qualification information from interested teams.

2.1 Request for Qualification Submittals

To proceed with this project, teams must send the following:

- One letter of intent
- A one page resume from each individual team member
- A team picture

The Request for Qualification is due in PDF format by November 23, 2015 to Mr. Hamza Shallwani at shallwani@ucdavis.edu.

Design specifications will be released to qualified teams on November 26, 2015. Each team is allowed to provide a judge that may be a faculty member or a professional from the construction industry.

2.2 Size of Teams

Each participating school may submit only 1 team for the competition. Teams are limited to a total of 8 members for both the design and construction phases.

2.3 Fees

No fees are necessary for the RFQ.
3.0 PREVIOUS YEAR

3.1 2015 Construction Project Achievements

Here are some achievements from the previous construction competition:

- Successfully planned and executed the first full-scale competition of this kind.
- UC Davis’ Arboretum now has ample bike parking that not only serves the public, but also allowed students to engage in a hands-on experience with construction management.
- Sponsors were satisfied by the team’s work and said they were willing to donate again for future competitions. Positive feedback from the 2015 construction management sponsors encourages the team to continue to ask for support from new civil engineering companies.
- This project provided a transition into the professional world and great learning experience. Examples include professional communication, how to run meetings, and how to schedule.

4.0 CONTACTS

ASCE UCD will be the host of the 2016 Construction Competition. For any questions, do not hesitate to contact:

Hamza Shallwani  
ASCE UCD Construction Project Competition Administrator  
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Harrison Kwan  
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We are excited to launch this year’s construction management competition and hope to hear back from you promptly.
FIGURES
Figure 1. The Construction Team from Tongji University in front of their site

Figure 2. Team UC Davis poses on their finished product
Figure 3. Site Location

Figure 4. Proposed Project Sites
Figure 5. Existing Asphalt to Decomposed Granite Transition (with curb)

Figure 6. Existing Asphalt to Decomposed Granite Transition (no curb)