2023-2024 ACE DC MENTOR PROGRAM
STUDENT PRESENTATION/MOCK DESIGN RFP

ACE MENTOR PROGRAM
ARCHITECTURE · CONSTRUCTION · ENGINEERING
WASHINGTON DC (ACE DC)

OVERVIEW

Each year, ACE DC teams are provided an opportunity to create their own mock design project and present in our local competition. In the spring, Teams will present their final projects to a panel of judges and compete for 1st, 2nd or 3rd place. Teams will also have judges provide feedback on their work product. Not all teams must compete – many teams use this as an opportunity for feedback on their effort throughout the year! This is intended to be a fun learning opportunity, where judges are always looking for creative and well though out projects that are feasible and carefully designed.

SUGGESTED DESIGN PROMPTS

Teams are welcome to choose any project they want to design/build (as in past years). However, If a team wants more focus, we suggest the following prompts for this year:

1. Re-design your school (or a portion of your school)
2. Improve a highway interchange
3. Design an Olympic Stadium or Iconic Structure
4. Create a resilent and sustainable shoreline development or waterfront building
5. Develop (or Redevelop) a community center, garden, park or open public space

Prompts 2-4 are inline with the current CIRT Competition. Visit www.cirt.org/competition for additional information on each prompt. We hope some teams consider submitting at the national level!

REQUIREMENTS

Each team will prepare power point slides presenting an overview of their project. Teams can include any elements in their power point presentation, including team photos or videos. Physical models are permitted as well.

The slides should include the following :
1) Project overview & Team Members Introduction
2) 3-5 of the deliverables on page 2
3) Sketch-up/BIM renderings. This could also be hand sketched renderings
4) Lessons learned (3 max)

Given the number of teams presenting, teams are asked to keep their presentation to no more than 10 minutes. While there is no official Time keeper, judges will keep an eye on Presentation length and will consider overall time in their evaluation.

Each student on the team should be provided an opportunity to present if they choose, and all students should be involved in the final work product.

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DELIVERABLES

Presentation **must** include 3 of the below deliverables. One should provide some visual of your project. It is suggested that a team choose no more than 5 total deliverables to remain within the time limit. There is no limit on the number of slides a team can present, but there is a 10 minute time guideline.

The judging rubric with the point breakdown will be provided. In the past, judges encourage creativity, examples of critical thinking, and ingenuity. Most importantly, we want to see that students have worked as a team and had fun in the process!

- Site selection overview (where will this be built, aerial footage, site improvements needed, etc.)
- Site Analysis Plan (hand sketched or digital)
- Engineered Site Plan
- Floor Plan(s)
- Elevation(s)
- Section(s)
- Perspective View(s)
- Interior Room layouts
- Framing Plan(s)
- Logistics Plan
- Construction Budget/Cost Estimate
- Construction Schedule
- HVAC/Plumbing/Electrical plans
- Proposed engineering systems
- Landscape Design
- Sustainability or LEED considerations

SOMETHING TO CONSIDER

In an effort to introduce all students to the value of the ACE Trades, teams can 2 extra minutes to include an additional slide on the trades. Suggestions include:
- List the major Trades that would be involved in executing a particular portion of the project
- Develop a work plan for one trade Partner
- Develop an Integrated Trade Plans (how two trades will coordinate their deliverables)