ASHRAE Region IV Student Summit at Clemson University

Design Competition

Competition Rules – This Competition is open to any ASHRAE Region 4 university students (In Person Only). Participants may compete as an individual or as a team (Max. 3 people per team). There will be only one pitch per team or participant. The pitch must fall into one of the 10 topic areas: Smart Buildings, AI/ML for Built Environment, Next-Gen Equipment Innovation in Energy, Energy Modeling New Technology, Sustainable/Zero-Energy Building Design, Innovation in Indoor Air Quality, Climate-Responsive Design, Water-Energy Nexus Innovation, Sustainable Design Techniques, Other (Such as Dissertation or Thesis topics, Extreme Environments design, Advanced Refrigeration, Circular Economy concepts).
Each team or participant is allowed 3 minutes to deliver their idea. Participants may choose between PowerPoint presentations or posters to convey their idea. Participants are allowed to showcase their prototype but are not allowed to pass it to the judges. Participants need to clearly convey (as relevant to their topic):

1. what problem they are solving
2. their solution to the problem
3. target market
4. impact of their product or innovation
5. resources needed

Inappropriate language or behavior will result in disqualification. Decisions of the judges will be final.
This competition is in-person and open only to participants from ASHRAE Region 4 who register in advance. Any student from universities in North Carolina, South Carolina, or Georgia can participate in this competition. Students participating in the competition also need to register for the Student Summit.

Full Name: _____

University Name: _____

Team Name (If applicable): _____

E-mail: _____

Address: _____

Major: _____

Topic (choose one of the following)

- ☐ Smart Buildings
- ☐ AI/ML for Built Environment
- ☐ Next-Gen Equipment Innovation in Energy
- ☐ Energy Modeling New Technology
- ☐ Sustainable/Zero-Energy Building Design
- ☐ Innovation in Indoor Air Quality
- ☐ Climate-Responsive Design
- ☐ Water-Energy Nexus Innovation
- ☐ Sustainable Design Techniques
- ☐ Other (Such as Dissertation or Thesis topics, Extreme Environments Design, Advanced Refrigeration, Circular Economy Concepts)

*****For Teams, please fill out this form for Each person on the team and email all forms together. Email completed forms to ashraeschapter4@clemson.edu *****

Please answer the following questions. Please limit to 150 words. One per Team.

What is the problem you are solving and how is it currently being addressed or solved today?

What is your solution and how is it different from any other solution out there? - What is your business model (to earn $)?

What is the size of market you are pursuing, how is it segmented and what is your go to market strategy including timeline of what are your realistic expected yearly revenues – project 3 – 5 years.

What does the team to achieve above goals look like and how much do you need to make the above a reality.