Bronco Challenge for Sustainable Impact

https://wmich.edu/sustainability/initiatives/broncochallenge

Weekly Newsletter #7

October 30, 2023

This newsletter will be issued each Monday starting with September 18, 2023; through November 10 when Bronco Challenge Phase 1 Solutions and Project Descriptions are due. The purpose is to provide tips and related information on team formation, project selection and other information that may be helpful to students competing in the Challenge. Previous issues may be found on the Bronco Challenge website noted above.

November 10 Deadline Reminder

If you plan to enter the Bronco Challen e, I trust you have your eyes on the deadline of 5 pm, Friday November 10 to submit your team's entry. Only one entry per team is needed. Remember the Bronco Challenge is a competition for ideas; you do <u>not</u> have to actually build something, just substantiate that your idea can be implemented and that it will deliver benefits at an affordable price. As noted in the <u>Student</u> <u>Handbook</u> for the Challenge, your entry must contain eight distinctly numbered and separate sections titled as follows and addressing specific information *summarized* below:

1. Project Scope and Objectives – *What problem will you solve?*
2. Project Inspiration – *Why did you choose to solve <u>that</u> problem?*
3. Solution Vision – *Who will benefit from your solution and why?*
4. Solution Advantages – *How will your solution impact the lives of the targeted benefactors?*
5. Project Management – *How will you keep your work on target and on time?*
6. Solution Implementation – *What would be required implement your idea?*
7. Supporting Resources – *From whom will you need guidance and assistance in developing your solution?*
8. Team Member Profiles – What is their a*cademic status and pertinent skill/experience?*

Project Options in AI and Sustainability

If you have a team that is interested in entering the Challenge, but have not yet crystallized a project, consider focusing on the use of AI to solve a sustainability problem. In the last 6-12 months there has been considerable discussion on LinkedIn and other internet sites about how AI can assist with solving problems embedded in nearly all of the UN Sustainable Development Goals. One recent publication, <u>Sustainability and AI: 10 AI Applications in Sustainability in 2023,</u> (click here) discusses the following ten sustainability topical areas where AI can have a significant impact.

1. Data Analysis for Sustainability
2. Sustainable Agriculture
3. Preparation for Natural Disasters
4. Biodiversity Monitoring
5. Fighting Air Pollution
6. Less Defective Production
7. Better Leak Detection in Production
8. Safer Workplace
9. Reduced Energy Production
10. Optimized and Sustainable Logistics

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