



UNIVERSITY
OF WYOMING

School of
Energy Resources



WYOMING
ENERGY
AUTHORITY

BAKER HUGHES AND UW present “THE DECARBONIZATION PRIZE”

Introduction

BAKER HUGHES is an energy technology company serving multiple industries to make energy safer, cleaner, and more efficient for people and the planet.

BAKER HUGHES and the University of Wyoming School of Energy Resources (UW-SER) are collaborating to offer students the opportunity to innovate in the decarbonization space through an ideation innovation contest.

The “Decarbonization Prize” is meant to focus on discovering how we can innovate with existing products and services or bring forward the ideation of cutting edge, transformative, and disruptive technologies that will decarbonize various industries.

Proposals under this “Decarbonization Prize” should focus on novel ideas to help us improve our understanding to produce, transport, store, and utilize hydrogen. Proposals can include but not limited to novel production methods, digitalization, carbon management (including carbon capture and storage), utilization in existing industries, improved monitoring and sensing, go to market strategies, additive manufacturing, material science, education or STEM materials and outreach, etc.

Under the BAKER HUGHES/UW-SER “Decarbonization Prize” students will submit an initial application identifying their team and provide a brief description of their innovative idea. All are welcome to participate in the prize contest during the proposal phase and ideas will be captured similar in format as the one attached in *Exhibit A*. Proposals will then be down-selected with the top 5 “finalists” giving a in person or virtual presentation of the concept to a panel of UW-SER and BAKER HUGHES judges. The panel consisting of BAKER HUGHES employees and UW-SER employees will determine the top 3 winners based on the presentation with cash awards as follows:

1st place - \$2,500

2nd place - \$1,500

3rd place - \$1,000

BAKER HUGHES and UW may issue up to three (3) additional research and development awards, whereby one or more of the top three proposals will receive additional funding from BAKER HUGHES to develop the innovation into a commercially viable product (“Follow-On Funding”). NOTE: selected projects will be funded through a sponsored research agreement executed between BAKER HUGHES and UW and subject to the terms thereof.

Additionally, proposals are expected to be in the idea stage only, applications that contain proposals that have already been developed, prototyped, or have had intellectual property protections filed on them will not be considered. Please do not include confidential or proprietary information in your application submission.

I. Student Eligibility

A complete application packet that meets the criteria outlined below is required to be considered for the BAKER HUGHES/UW DECARBONIZATION PRIZE.

- A. Eligibility at time of application: In order to apply to and be considered for the Award money, teams shall meet the following guidelines:
 - a. You must be an enrolled student (undergraduate or graduate) and in good academic standing at UW.
 - b. Each team must have at least two but no more than six students. (Although not required, preference will be given to teams that consist of more than one discipline. For example, a student with an Engineering background and a student with a Communications background)

II. Deadlines

There will be a virtual informational session on March 2, 2022, at 3:00 pm. Those interested in attending the session should email Christine reed at Christine.reed@uwyo.edu to gain access to the link. The application for the Decarbonization Prize closes April 1, 2022 at 5:00pm. Decisions of finalists will be announced by May of 2022.

III. Fraudulent Documentation Submission

All applications must be the original work of the applicants. Repeat or duplicate applications, and applications with sections duplicated from any other application will not be considered. The presentation of false or otherwise incorrect information will lead to immediate disqualification.

IV. Application Submission

Applications are due Friday, April 1, 2022 at 5:00 pm.
Applications will ONLY be accepted via email submission to Christine.reed@uwyo.edu.

V. Required Application Items

All parts of the application must be thoroughly completed, and all required items in Sections 1-4 below must be saved as a *single* PDF. Section 5 (suggested/optional faculty research mentor letter of recommendation) may be included in the PDF with the other items in the application, or it may be sent by your research mentor separately to robert.klenner@bakerhughes.com.

Applications missing any component are considered incomplete and therefore will not be considered.

Section 1: Cover Page

A completed, signed, and dated cover page must be included in your application. The cover page can be found below.

Section 2: Title Page

Include the project title, team name, team members' names and the Banner ID of each student.

Section 3: Statement of Purpose (5 page maximum)

A strong Statement of Purpose is coherent, well-organized, and includes the following:

1. **Project Summary:** A concise problem statement and summary of the innovation/concept the team will be working on and the technology that will be leveraged.
 2. **Innovation and Impact:** Clearly define the industry that will be targeted and provide an explanation of the significance/value of the project to that industry.
 3. **Baker Hughes Technology Integration:** Explain, if applicable, how existing Baker Hughes technology would be leveraged in your team's innovation idea.
 4. **Team Capabilities:** Provide an explanation of what each team member's role (such as a contribution to the design, methods, data collection, etc.) would be in the project if the proposal were to receive follow-on funding. Also, describe how this Decarbonization Prize will benefit each team member's academic progress, goals, and extramural activities.
 5. **Future Work:** Describe the final deliverable and what resources would be needed if additional research (follow on) funding was awarded for two semesters.
 6. **Appendix (2 page maximum):** Place any figures and references here.
- Section 3 should be in Times New Roman 12-pt font, 1.0 spacing.

Section 4: Your Current Curriculum Vitae (CV) (1 page maximum per student)

A *curriculum vitae*, or CV, is an academic resume that details your academic and research training, experience, and accomplishments for each student.

Section 5: Faculty Research Mentor Letter of Recommendation (suggested/optional, 2 page maximum)

One letter of recommendation from a faculty research mentor is suggested/optional. Additional letters of recommendation will not be accepted. This letter can be included in your application packet and uploaded as a single PDF with the materials in Sections 1-4 or emailed to robert.klenner@bakerhughes.com.

BAKER HUGHES/UW Decarbonization Prize Cover Page

Please read this page thoroughly and designate one student to initial next to each of the eligibility criteria to indicate that you understand and agree to these criteria. Your faculty mentor must also carefully review this document, and both you and your mentor must sign and date the document in the designated space below prior to uploading it with your application materials. This signed and dated page must be included in your application packet in order to be considered as a finalist and for an award. Incomplete applications or applications that are missing the signed cover sheet will not be considered.

Initials	Eligibility Criteria
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- | | |
|-------|--|
| _____ | I understand that I must be an enrolled student at UW in good standing. |
| _____ | I understand that applicants are required to present their work if selected as a finalist. |
| _____ | I understand that recipients of this award are required to submit a final research report to UW's Office of Technology Commercialization |
| _____ | I understand that any Follow-on Funding will require that I enter into the Baker Hughes and UW Agreement and the terms contained therein. |
| _____ | I understand that the inclusion of any unprotected intellectual property in my submitted proposal may be considered a public disclosure under applicable patent and trade secret law, which could result in a loss of rights for the intellectual property owner. I agree to abide by UW Intellectual Property Policy UW Regulation 9-1. |

Applicant Agreement:

I attest that all of the above information, and information contained in the attached application packet, is true and complete.

Applicant Signature: _____

Date: ____ / ____ / ____

Applicant Name (printed): _____

EXHIBIT A

Cover Page

Title Page

Project Title

Team Name

Team Member Names (Banner ID):

Statement of Purpose

Project Summary: A concise problem statement and summary of the innovation/concept the team will be working on and the technology that will be leveraged.

Innovation and Impact: Clearly define the industry that will be targeted and provide an explanation of the significance/value of the project to that industry.

Baker Hughes Technology Integration: Explain, if applicable, how existing Baker Hughes technology could be leveraged in your team's innovation idea.

Team Capabilities: Provide an explanation of what each team member's role (such as a contribution to the design, methods, data collection, etc.) would be in the project if the proposal were to receive follow-on funding. Also, describe how this Decarbonization Prize will benefit each team member's academic progress, goals, and extramural activities.

Future Work: Describe the final deliverable and what resources would be needed if additional research (follow on) funding was awarded for two semesters.

Appendix (2 page maximum): Place any figures and references here.

** Curriculum Vitae of each Team Member**

** Faculty Letter of Recommendation (suggested/optional)**