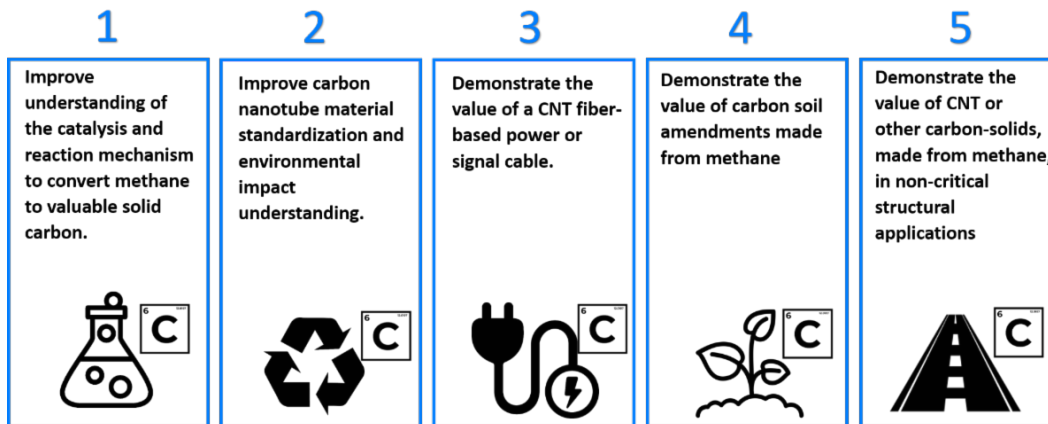




## Call for Proposals Fall 2020

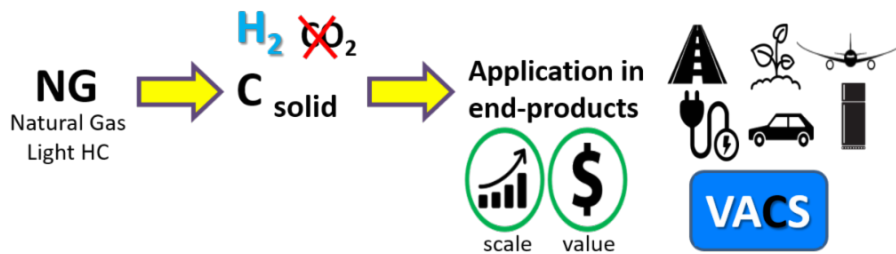
The Carbon Hub team is excited to announce the inaugural Call for Proposals to be released on September 14, 2020, with submissions due by October 31, 2020. Awardees will be notified on or about November 10, 2020.

Below you will find the five topical areas for our Fall 2020 Call for Proposals. We have an interesting mix from fundamental investigations, LCA/TEA/Policy studies, to applied prototype testing/evaluations available.



The central tenet for the Carbon Hub and this Call for Proposals is co-generation of clean hydrogen and Value Added Carbon Solid (VACS) material, for which the VACS generates additional energy and emissions avoidance by its utilization in a commercial application. We define this important VACS material as illustrated in the schematic below.

## Value-Added Carbon Solids – Our definition



A solid carbon material produced by splitting efficiently (e.g., by pyrolysis) methane and light hydrocarbons with concurrent production of hydrogen and no carbon dioxide emissions.

Being used pervasively (>1 MM Tons/year)

Displacing metals, traditional construction ceramics, fertilizers and other materials with high  $CO_2$  footprints.

### excluded



Carbon black, amorphous carbons, graphite



Solid carbon whose only value is a  $CO_2$  emission avoidance or that will be oxidized in other processes (e.g., metallurgical coke)

### included



Carbon materials that have macroscale structural integrity and properties that overlap with widespread materials



Carbon powders that have potential use as additives in very large-scale systems, e.g., in soil or concrete

We anticipate funding 4 - 7 proposals in the range of \$50,000 - \$250,000, for projects from 6 - 18 months duration.

In order to provide the best guidance on what is IN and OUT of scope, we will be hosting webinars for each topical area at the end of September/beginning of October.

This Call for Proposals is restricted to Carbon Hub Academic [Collaborators](#). If you are a faculty member or principal investigator at a non-profit institution and would like to be considered to become an Academic Collaborator, please send a request for information to [carbonhub@rice.edu](mailto:carbonhub@rice.edu).

We will share topical abstracts and details about the upcoming webinars in the next newsletter and on a dedicated website open to our Collaborators.

Sincerely,

Dr. Glen C. Irvin Jr.  
Chair, Carbon Technical Council (CTC)  
Carbon Hub