REQUEST FOR PROPOSALS

Development of SCG3: Carbon Neutral Concrete Materials and Technologies 2022; What to Implement Now and What is Coming.”

The NEU Center of Excellence for Carbon Neutral Concrete is developing a new sustainable concrete guide (SCG3), roughly titled “Carbon Neutral Concrete Materials and Technologies 2022; What to Implement Now and What is Coming”. This report will highlight current, existing technologies and methods of producing and placing carbon neutral concrete, and the concepts, materials, and technologies that the industry is scaling to market.

The concrete industry is always advancing, especially in the sector of sustainable and carbon neutral concrete. Due to this rapid innovation, it is important to create this guide in a timely manner to serve as a place for engineers and construction professionals to reference when working on sustainable concrete projects.

Scope of Work

The following proposed scope of work is provided to give the author(s) an idea of the extent of the new text expected by NEU. The final scope of work will be a combination of these items and those suggested by the author(s). The proposal submitted to NEU should reflect the final scope of work.

The author(s) chosen for this project will be responsible for content development, providing photographs, draft illustrations to be developed by NEU, and any other accompanying material. NEU staff will assist in the development of any graphics/illustrations that are needed, but draft concepts are the responsibility of the author(s).

If the author(s) chooses to use outside subject matter experts, the author(s) will be responsible for reviewing and approving the expert’s work prior to submitting the end result to NEU for review and ACI for consideration.

In general, the proposed scope of work must include the development of new text to reflect current U.S. and International sustainable and low carbon concrete production practices and technology. Any new photos should reflect safe practices, especially with respect to the use of personal protection equipment, whenever possible. If photographs are submitted that show unsafe practices, these practices must be denoted by the author(s) so NEU staff can determine if the submitted photograph can be used. The author(s) will also coordinate with NEU staff to develop or modify needed illustrations.

Content should include the following (but not limited to):

- Overview of cement production, concrete components, concrete production options
- Overview of regionality of concrete constituents
- Technologies by component/process
Example: water with options to reduce consumption, recycle wash water, etc.

- Cement (alternatives, alternative processes, etc.)
- Aggregate
- Admixtures
- Carbon capture or sequestration (CUSS Technologies)
- Others as suggested by Author(s)

The format for each technology should be standard and include a designator (i.e. a red, yellow, green mark for readiness level overall accompanied with a few key categories such as cost, feasibility, quantity, capital needs, etc.)

The Deadline for proposals is 5pm EST, Friday, August 26th, 2022. Proposals will be reviewed and an Author(s) will be chosen by September 1st, 2022

Deliverables (each stage needs approval from NEU before moving on):

- Outline Draft – working deadline of September 16th, 2022.
- Sample format for technologies – working deadline of September 30th, 2022
- Draft Report – working deadline of October 21st, 2022
- Final Report – working deadline of November 18th, 2022

Submittal Requirements

The author(s) proposal must include:

- A detailed scope of work, including whether the author disagrees with the proposed content outline and additional revisions the author(s) feels are necessary. Please also include a resume/cv.
- A description of the authors’ plan for use of outside experts, if applicable.
- A discussion of any additional ACI staff support required by the author(s).
- A proposed schedule if it differs from the above draft deliverable schedule, including completion of draft chapters, external review time, time for responding to review comments, and preparation of a final draft. Dates should be relative to above outline.
- A lump sum cost for authoring SCG3 including payments to outside experts, if any. Hourly rates for out-of-scope work. (A basis of payment other than a lump sum may be considered but must be approved by ACI staff prior to submitting the proposal.)
- A requested schedule of payments.

All proposals must be submitted via email no later than 5PM, Friday August 26th, 2022. Submit proposals electronically to Kelly Dudley at Kelly.Dudley@neuconcrete.org.