



**CONSTRUCTION
INNOVATION CENTRE**
Research Driving Change

CIC STUDENT COMPETITION

Construction 2050

IDEAS FOR FUTURE



REGISTRATION DEADLINE

May 31, 2022



TOTAL PRIZES

\$6,000



REGISTRATION COST

FREE!



REGISTRATION

ConstructionCIC.ca/competition



THE CHALLENGE

The pace of technological innovation is leading to the rapid transformation of many industries, including construction. What do you think the construction industry will look like in 2050? How can advanced technologies, Construction 4.0 concepts, digitalization, IoT, robotics, and other innovative approaches be used as a jumping off point to propose novel ideas or extensions of existing solutions?

We invite you to answer these questions by imagining creative ways to address social, environmental, and economic concerns by improving aspects of the construction industry, such as productivity, safety, design, sustainability, construction methods, materials, etc.

SUBMISSION REQUIREMENTS

Please submit a video less than 8 minutes in length that showcases your idea. The video could be an animation, 3D visualization, or even a recorded presentation, and the video could include a demonstration of the solution using models, prototypes, project or product sketches, new materials, an app, game, simulation, or any other creative option that the team deems suitable to present their innovative idea.

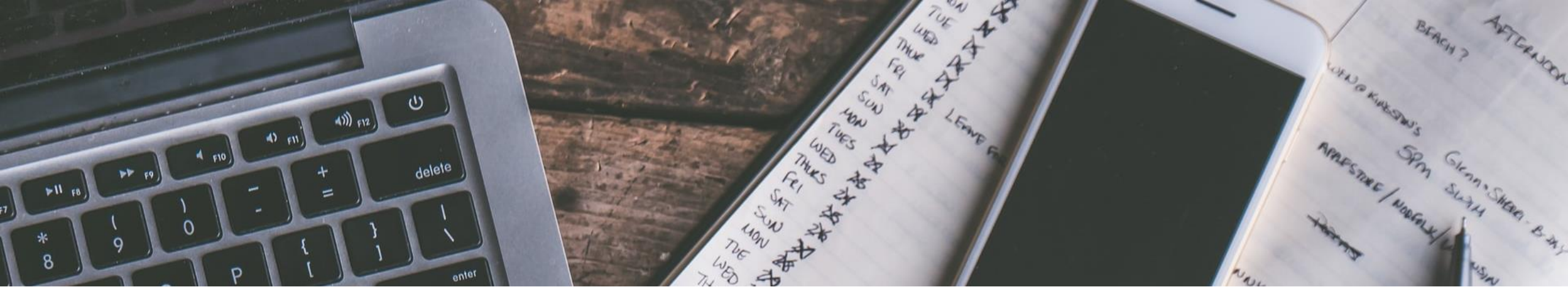
You must also submit a 1-page document (500 words maximum) answering the following three questions:

- 1.** *How does your solution address a key challenge in the construction industry? (please describe your idea, and how your solution fits into the construction industry you imagine in 2050)*
- 2.** *Why does your idea or solution not currently exist? Are there barriers that would need to be removed in order for your idea or solution to become a reality? Perhaps there are structural, societal, or policy changes that could facilitate the adoption of your innovation.*
- 3.** *What do you imagine would be the impact of your solution?*

ELIGIBILITY

- Undergraduate and graduate students who have been registered within the last 12 months at a post-secondary institution in North America are eligible to participate in this competition.
- Submissions are to be completed in teams of 2 to 5 people.
- Teams of 3 or more people may have one participant who is not a student.
- Students are strongly encouraged to form interdisciplinary teams with diverse backgrounds, knowledge and skill sets.





IMPORTANT DATES

- Registration deadline: **May 31, 2022**
- Deadline for submission: **June 30, 2022**
- Finalists announced: **July 13, 2022**
- Announcement of winners will take place during the CIC Forum: **July 27–29, 2022**

EVALUATION CRITERIA

- Originality and Creativity **25%**
- Technical Innovation **25%**
- Impact **25%**
- Presentation **25%**



AWARDS

- First place: **\$3,000 CAD**
- Second place: **\$2,000 CAD**
- Third place: **\$1,000 CAD**
- + **Three honorable mentions**

The top 6 submissions will be presented to senior industry leaders at the Construction Innovation Centre (CIC) Forum event. The top 6 submissions will also be featured on the CIC website. Your idea may be passed on to CIC's Strategic Advisory Committee consisting of key experts from industry, policy-making bodies, and academia who may provide feedback and direction to you in their effort to foster the development of new responses to all the varied challenges confronted by the construction industry.

CIC PARTNERS

The CIC Student Competition and all the activities of the CIC are made possible by our partners.



ABOUT THE CIC

The University of Alberta's Faculty of Engineering established the Construction Innovation Centre (CIC) in 2019 with support from more than 50 partners in industry, professional associations, and funding bodies and more than 30 established faculty members in construction engineering, building science, masonry, steel and water research. The CIC brings new attention to Canada's construction industries, creating new opportunities for collaboration between researchers and industry professionals. The CIC has as its mission to provide breakthrough research, education and training to directly benefit Canada's construction industry and lead to the sustainable and economic development of our built environment and a competitive advantage for the Canadian construction industry.





**CONSTRUCTION
INNOVATION CENTRE**



www.constructionCIC.ca



cic@ualberta.ca