



Call for Participation (Preliminary):

2022 Belt and Road International Student Competition on

Digital Architectural Design

With the aim to promote the academic and cultural exchanges among university students from various countries, and to cultivate the scientific and technological innovation spirits and practical abilities of university students, the 2022 Belt and Road International Student Competition on Digital Architectural Design is expected to be launched.

The details are notified as follows:

I. Background

Two thousand years ago, in the vast desert, merchants from various countries led their camel caravans proceeding along the long Silk Road with tinkles of the camel bells incessantly lingering on, which facilitated the communication between China and the West. Nowadays, a modern railway transport network has been built on the ancient Silk Road where the speeding trains have become a new bond among countries along the route, accelerating the economic cooperation and cultural exchanges of all these countries. Despite the severe COVID-19 pandemic, the concept of a community with a shared future for mankind that advocates mutual help has been conveyed to the whole world, injecting new vitality to the ancient Silk Road.



Camel bells once lingered in the air, and merchant vessels used to come in a steady stream. Covering traffic hubs of the cities, the winding railway lines play a critical role in promoting the social and economic development of countries along the Belt and Road, for the network accelerates the flow of supplies and passengers. At present, the ongoing trend of digitalization highlights that it is important and pressing to develop, update, and operate digitalized and informatized railways and relevant facilities. In this context, the Belt and Road Architectural University International Consortium (BRAUIC) proposes to organize the 2022 Belt and Road International Student Competition on Digital Architectural Design themed on “Railway: A New Bond Along the Silk Road” with a view to cultivate all college students’ digitalization-based thinking that explores how to preserve the historical features of railways and cities, improve overall quality, and achieve sustainable development along the Silk Road. Urban renewal, architectural heritage protection, environmental monitoring, and other topics related to the railways are included in the Competition. Centering around these topics, participants will use computer-assisted technology, virtual reality, digital twins, geographic information system, remote sensing technology, and other new technologies to finish architectural design, structural design, and scene modelling and visualization. During the Competition, students’ comprehensive ability to solve problems will be improved. Their innovation capability will be demonstrated and quality in all aspects will be enhanced. Furthermore, this competition can play an active part in promoting the in-depth communication, cooperation, and sharing of BRAUIC members in the fields of



education, science, and culture.

II. Organizational structure

Initiated by:

- Belt and Road Architectural University International Consortium (BRAUIC)

Organized and hosted by:

- Beijing University of Civil Engineering and Architecture (BUCEA)

Co-organized by:

- Silk Road International Foundation
- Beijing International Peace Culture Foundation

Supported by:

- United Nations Educational, Scientific and Cultural Organization (UNESCO)
- G-global International Secretariat
- International Society for Photogrammetry and Remote Sensing (ISPRS)
- Beijing Peace Garden Museum
- China Enterprise Culture Improvement Association
- Belt and Road Logistics Branch of China Communications and Transportation Association
- China Silk Road Group Limited
- Glodon Company Limited
- China Railway Design Corporation



- Beijing Jianda Assets Management Co., Ltd.
- China International GeoInformation Corporation Limited
- Daspatial Technology Co., Ltd.

III. Theme: *Railway: A New Bond Along the Silk Road*

Centering around construction and management of railways and facilities, urban renewal, architectural heritage protection, environmental monitoring, and other topics, participants will use computer-assisted technology, virtual reality, digital twins, geographic information system, remote sensing technology, and other new technologies to finish architectural design, structural design, and scene modelling and visualization.

IV. Eligibility

Open to both graduate and undergraduate students enrolled in engineering programs.

V. Competition categories and awards

S.N.	Category	Awards	No. of Winners	Prizes	Remarks
1	Architectural Design	The First Prize	1	15000 yuan, Trophy & Certificate	There are other awards such as Organizational Achievement Award and Outstanding
		The Second Prize	2	10000 yuan, Trophy & Certificate	
		The Third Prize	7	5000 yuan, Trophy & Certificate	



S.N.	Category	Awards	No. of Winners	Prizes	Remarks
		Honorable Mentions	10	Certificate	Supervisor Awards.
2	Structural Design	The First Prize	1	15000 yuan, Trophy & Certificate	Excellent works will be selected for the exhibition. The Jury Committee may add or omit any prizes according to the quality of the submissions.
		The Second Prize	2	10000 yuan, Trophy & Certificate	
		The Third Prize	7	5000 yuan, Trophy & Certificate	
		Honorable Mentions	10	Certificate	
		The Second Prize	2	10000 yuan, Trophy & Certificate	
		The Third Prize	7	5000 yuan, Trophy & Certificate	
3	Scene Modelling and Visualization	The First Prize	1	15000 yuan, GET3D Cluster V5.0 (Software Value: 198000 yuan), Trophy & Certificate	
		The Second Prize	2	10000 yuan, ModelPainter 4.0 (Software Value: 98000 yuan), Trophy & Certificate	
		The Third Prize	7	5000 yuan, ModelFun V2.1 (Software Value: 59800 yuan), Trophy & Certificate	
		Honorable Mentions	10	Certificate	



VI. Entry requirements

(1) Each participating university recommends no more than 6 teams with no more than 2 teams under each category.

(2) A participating team contains no more than 5 members and no more than 2 supervisors. The supervisors shall be university teachers.

(3) The submissions shall not contain any words or patterns indicating the names of the participants or the university. Those who do not meet the requirements will be disqualified.

(4) The participants have the copyright of the entries, while the organizers have the right to exercise other copyright except the authorship of the entries, including the right to use the entries (without additional payment), and retain the right of post-processing of the entries, such as publishing books, photo albums, videos, model exhibitions, and technology promotion, etc.

(5) It is strictly prohibited to copy the existing design works. The participants shall be responsible for the similarity, plagiarism, and intellectual property disputes of the technical solutions.

(6) Submitted entries will not be returned.

(7) All submitted materials shall be in English.

VII. Registration

See the details at the following *Calls for Participation* to be issued.



VIII. Schedule

S. N.	Time	Arrangement
1	March 2022	Call for participation
2	April-May, 2022	Competition Sign-up
3	June-July, 2022	Work Submission
4	August-September, 2022	Jury selection
5	October 2022	Award ceremony & work exhibition (5th Anniversary Celebration of BRAUIC)

IX. Contact information

The Secretariat of the organizing committee is set at the Beijing University of Civil Engineering and Architecture.

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The Secretariat of the BRAUIC

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