



第五届
全球重大挑战论坛
THE 5TH GLOBAL GRAND
CHALLENGES SUMMIT



中國工程院
CHINESE ACADEMY OF ENGINEERING



NATIONAL ACADEMY
OF ENGINEERING



Royal Academy
of Engineering

JOINT STATEMENT ON THE GLOBAL GRAND CHALLENGES SUMMITS

The Global Grand Challenges Summits (GGCS)—co-hosted by the Chinese Academy of Engineering (CAE), the National Academy of Engineering (NAE), and the Royal Academy of Engineering (RAEng)—have for the past ten years assembled some of the best minds from the three countries to explore innovative solutions to the most pressing problems of the 21st century. On the occasion of this 5th and concluding summit, we—the three presidents of the organizing academies—are honored to reflect on their impact and express our commitment to future collaborations.

The Summits organized by the academies brought together engineers and scientists with the intent of establishing a global community of scholars and practitioners. Academies' members and fellows, along with talented students and top professionals from academia and the public and private sectors, united in their determination to translate ideas into tangible solutions and turn ambitious visions into reality.

The Summits have focused on major global challenges that cross disciplines and geography. Through the synergy of the science and engineering communities of the three countries, they have fostered wide-ranging collaborations and propelled these communities to come together to confront issues and resolve difficulties.

In 2021, under the mechanism of the GGCS, the CAE, NAE, and RAEng organized and webcast a three-seminar series on the pandemic-related engineering advances each country had achieved and on best practices for the development, production, and dissemination of interventions. This effort highlighted opportunities for global economic recovery and a more robust public health system.

The future of the world is in the hands of the youth, and Student Day activities have held great significance in past Summits. Student Day competitions that were a part of the first four events covered a wide range of topics, such as healthcare, energy, education, and pollution control, attracting renowned university teams from across the globe. The competitions facilitated intercultural exchange, carried forward the spirit and practice of engineering, and inspired students to become future engineering leaders who are capable of addressing the world's most vexing problems with the goal of ensuring equity among our citizens and avoiding unintended negative consequences of our innovations.

This fifth Summit marks the culmination of this effort. Envisioning the future, we are committed to forging ahead on the path of progress. The CAE, NAE, and RAEng, in collaboration with their sister academies across the globe, will seek to further promote scientific openness, expand cooperative mechanisms, and enhance the role of engineering in addressing the most immediate challenges of the present day. Together, we will work toward ushering in a brighter future for all, letting the rays of hope guide us to illuminate humanity!

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September 20, 2023 BJUT · Beijing