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International Cooperation and Exchange Office



**CHINA  
UNIVERSITY OF  
GEOSCIENCES (BEIJING)**

**Career  
Development  
Bulletin**

**2021**

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## Introduction

China University of Geosciences (Beijing), a well-known institution of higher learning both in China and abroad, is located in Xueyuan Road, Haidian District, Beijing, surrounded with prestige universities. The university is a national key university affiliated of the Chinese Ministry of Education and established jointly with the Ministry of Natural Resources. In 2017, the university was listed as one of the “Double First Class” universities.

Founded in 1952 as a result of the merger of the geology departments (subjects) from Peking University, Tsinghua University, Tianjin University, and Tangshan Railway College, China University of Geosciences (Beijing) is a university with a long history and profound heritage. In 1960, it was awarded the name “Beijing Cultural and Educational Front Red Flag College”. Early success led to its gaining a foothold among the 64 “national key colleges and universities”. In 1970, the university was obliged to move to a new campus in Wuhan. Thanks to the direct support of Comrade Deng Xiaoping, the university resumed at the original site in Beijing in 1978. In 1987, the Ministry of Education approved a plan for China University of Geosciences to establish two institutions of higher learning, in Beijing and Wuhan respectively. It was among the first universities designated for the state key construction of the “211 project”, “985” innovation platform for advantageous disciplines, and was among the first 33 universities in China approved to set up graduate schools. In February 2000, China University of Geosciences (Beijing) (hereinafter referred to as “CUGB”), previously managed by the Ministry of Land and Resources, was put under the management of the Ministry of Education. In March 2005, the university headquarters was abolished, CUGB and China University of Geosciences (Wuhan) became independent educational entities.

Since its foundation in 1952, CUGB has experienced an unusual course of development with the construction of New China, and has grown with the thriving of the country. CUGB has borne in mind its fine tradition of serving the country with its expertise in geology, undertaking the glorious mission of blazing a trail of socialist construction, producing a large cohort of graduates equipped with the technical knowledge and professional attitudes needed to build up the nation and contribute to the flourishing of the earth sciences. Facing the challenges of running a university, CUGB and its staff have developed perseverance, tenacity and courage, with the pursuit of “patriotism, endurance, pioneering spirit and continuous exploration”.

At present, CUGB has 16 colleges with a total of 41 undergraduate majors, 16 first-level discipline doctoral programs, 34 first-level discipline master programs, and 14 professional degree categories with a total number of 16,898 full-time students which includes 8,443 undergraduates, 6,464 postgraduates, 1,779 doctoral students, and 212 international students. The university covers an area of 525,843 square meters and has practice bases in Beidaihe (Beijing), Zhoukoudian (Beijing) and Pingquan (Hebei Province).

China University of Geosciences (Beijing) is a research university featuring Geology, Resources, Environment, and Geotechnical Engineering, covering science, engineering, literature, management, economics, law and other disciplines. Among them 2 were listed as the national construction of “Double First Class” discipline, and 2 obtained A+ in the fourth round of discipline evaluation. 6 disciplines have ranked world’s top 1% of the ESI, and Earth Sciences have entered the top 1%.

China University of Geosciences (Beijing) boasts 15 post-doctoral research centers and well-cultivated faculty. Among the 1,461 staff members and 976 full-time teachers, 276 are professors, 357 associate professors, and 365 doctoral supervisors. There are 10 academicians of the Chinese Academy of Sciences, and 1 academician of the Chinese Academy of Engineering, 8 teachers of





the National Teaching Project, 13 winners of the National Science Fund for Distinguished Young Scholars, 4 National-level Special-term professor, 1 National-level Famous Teacher Award winner, 2 National-level Outstanding Teachers, 1 National Famous Professor, 12 winners of the National Science Fund for Outstanding Young Scholars, 3 Nation-level Young Scholar, 25 are titled Distinguished Teacher in Beijing, and 3 are titled Distinguished Young Teacher in Beijing, and 15 Post-doctoral Research Centers are established.

China University of Geosciences (Beijing) enjoys an outstanding reputation for talent cultivation. The university has always regarded cultivating people with good virtue as its fundamental mission. By far, more than 200,000 outstanding students have graduated for the university, including a large number of elites in their industries and Comrade Wen Jiabao was one of the representatives. 40 of its graduates have been elected academicians of the Chinese Academy of Sciences and the Chinese Academy of Engineering, and more than 200 of them have become model workers at or above the provincial and ministerial level. The university adheres to the training goal of high-quality and innovative talents with “good virtue, solid foundation, extensive knowledge and profound specialty”, always center on talent training and recognize the fundamental importance of undergraduate education, and forms an education system integrating “general education, professional education and innovation and entrepreneurship education”. The university has 10 first-class undergraduate majors, 6 national quality courses, 2 national experimental teaching demonstration centers and 1 national virtual simulation experimental teaching center. Students have performed well in various discipline competitions, volunteer services, social practice, innovation and entrepreneurship, and artistic and sports competitions.

China University of Geosciences (Beijing) is an important base for national geoscience research. The University has strengthened its scientific layout and organization, and has made remarkable achievements in research projects, high-level research, scientific research awards, training of research talents, construction of research platforms, intellectual property rights and transformation of research achievements. CUGB has yielded fruitful results in the research on geological evolution of the Qinghai-Tibet Plateau, non-traditional isotope geochemistry, geological processes and mineralization, ultra-deep drilling as well as in polar research, and has published many papers in the international top journals such as Nature, Science and Nature Geoscience. In the past 5 years, the university has won 24 national and provincial science and technology awards as the first signature unit to complete the project. The university has a total of 19 key laboratories, ranging from the National Key Laboratory of Geological Processes and Mineral Resources, the National Platform for Sharing Rock and Mineral Fossil Specimens, those of the Ministry of Education and the Ministry of Natural Resources, engineering centers and provincial-level scientific research platforms. The university will promote the construction of “five major aspects”, namely “major discipline construction”, “major science initiative”, “major

science equipment”, “major science and technology project” and “major resource platform”, and promote the transformation and upgrading of traditional geoscience to earth system science.

China University of Geosciences (Beijing) is active in international exchanges and cooperation. CUGB has signed a cooperation agreement with a number of world-class universities and high level research institutions including University of California, Los Angeles, Colorado mining institute, University of Waterloo, University of Edinburgh, University of Birmingham, University of Hanover, Postdam Geoscience Research Center, University of Sydney, Macquarie university and others. Besides, CUGB has established cooperative partnership with more than 200 colleges, universities and research institutions across over 60 countries and regions. The university secured 4 Bases for Introducing Talents and Discipline to Universities, conducting multiple national-level talent-introduction projects. Based on the “20+20 Cooperation Plan for Chinese and African Universities”, the University has set up a Confucius Institute in the University of Namibia.

In the new era, CUGB will march on a new journey. Guided by Jinping Xi Thought on Socialism with Chinese Characteristics, the university adheres to the motto of “hard work and plain living, staying realistic and pragmatic”, follows the strategic concept of the “three stages” at the time of CUGB’s one hundredth anniversary, insists on cultivating people with good virtue, conducts the “implementation action”, unswervingly blazes the connotative development path, wholeheartedly seeks development, and constantly create a new situation of the construction of world-class university in the field of earth science, in order to realize the Chinese dream of “two one hundred” goals and the great rejuvenation of the Chinese nation!

(Statistics as of December 31, 2020)



## Principle school leaders



**Junjie Ma**  
Party Secretary

Junjie Ma, Manchu, was born in November 1962 in Dalian, Liaoning Province. He is a member of the Communist Party of China (CPC), Ph.D, professor and Ph. D student tutor. He starts his career in August 1984. At present, with “Lao Ma” as his pseudonym, he is a member of China Writers Association (CAC) and the affiliated Committee of Fiction of the CAC.

Major educational background and work experiences include: 1980.9-1984.8, studied philosophy in the School of Philosophy, Renmin University of China; 1984.8-1990.10, cadre of the Office of Student Affairs and the Office of Academic Affairs, Renmin University of China; 1990.10-1995.10, Deputy Director of the Office of Academic Affairs, Renmin University of China; 1995.10-2001.2, Director of the Office of Student Affairs, Renmin University of China; 2001.2-2002.9, Vice President of Renmin University of China; 2002.9-2014.6, Vice Secretary of the Party Committee, Renmin University of China; 2014.6-2015.5, Vice Secretary of the Party Committee and Secretary of the Commission for Discipline Inspection, Renmin University of China; 2015.5-2018.9, Secretary of the Party Committee and Executive Vice President of National Academy Of Education Administration; from 2018.9 to the present, Party Secretary, China University of Geosciences (Beijing).

Secretary Ma has been committed to teaching and research in ideological and political education, leadership science, human resource management and higher education management, etc. He won the first-class Award of the Beijing Teaching Achievement and the second-class Award of the National Teaching Achievement with his project “Quality Education in psychology for College Students”.

In the field of literature, his main works include: “Oi Hi Yo”, “Silly Laugh”, “Situation Reflection”, “Some Individuals”, “A Soft Bunch”, “Subtext”, “Happiness One Hundred Percent”, “Interesting”, “I Have a Gun”, “One Man’s Party”, “Special Interview”, “Some Kind of Meaning”, “A Mountain from Distance, A Tree from Up Close”, “Bachkin’s Carnival”, “Six Short Stories of Lao Ma”, “One Man’s Chorus”, “Angry Laughter”, “Grabbling Shadow”, “Shake Off the Breath of Insomnia”. Currently, more than 60 editions of these works have been published and distributed in over 40 countries, which are translated into over more than 20 languages. The awards include: the First Pusong Ling Literary Award (Microfiction); Award of Best Scripts of Fourth Beijing University Students Drama Festival; Award of Short Story of the “Tenth October Literary Award”; Award of the Second “Golden Fiction”; the 2014 Mongolian Supreme Literary Award; the 2018 Romanian Outstanding Prose Award; the 2018 Kyrgyzstan Best Literature Work Award; the Outstanding Writer Award of 2019 New Delhi World Book Fair; and the “Best Writer of the Year 2019” of Thailand.



**Youhong Sun**  
President

Youhong Sun, Han nationality, was born in July 1965 in Rugao, Jiangsu Province. He is a member of the Communist Party of China (CPC), a Ph.D. in engineering, professor and tutor for Ph.D. student. He started his career in July 1990. At present, he is a teacher of the “National Teaching Project”, a member of the Disciplinary Review Team of the seventh-session Academic Degrees Committee of the State Council, and the Deputy Director of the Department of Geology and Resources of the seventh-session Science and Technology Commission of the Ministry of Education.

From September 1983 to July 1990, he had been studying Drilling Engineering in the School of Exploration Engineering, Changchun Geological Institute. From July 1990 to June 2000, he was a lecturer and Deputy Director of the School of Prospecting Engineering, Changchun Geological Institute. During this period: from September 1994 to July 1998, he was a part-time Ph.D. candidate in Prospecting Engineering at Changchun Geological Institute (renamed as Changchun University of Science and Technology in February 1997). From August 2000 to May 2001, he was the Director of the Graduate Office of Chaoyang Campus of Jilin University. From May 2001 to December 2008, he was the Deputy Dean of College of Construction Engineering of Jilin University. From December 2008 to September 2015, he was the Dean of College of Construction Engineering of Jilin University. From September 2015 to March 2019, he was the member of Standing Committee of the Party Committee and Vice President of Jilin University. From March 2019 to the present, he has been the President and Deputy Secretary of the Party Committee of China University of Geosciences (Beijing).

He has long been devoted to the research of drilling for potential oil and gas resources and scientific exploration with a number of landmark achievements, including the key technology of cold and hot drilling for land-based gas hydrates, and the “Crust One Project” of 10,000-meter continental scientific drilling rig. He presided more than 40 scientific research projects initiated by the Ministry of Science and Technology, the Ministry of Land and Resources, the Ministry of Education and the National Natural Science Foundation in China. He authorized 57 patents for inventions as the first inventor; published 110 papers as the first author (corresponding author) and 5 books (textbooks). He has won 2 second prizes of National Award for Technological Inventions (ranking No.1), 1 second prize for National Teaching Achievement, 4 first awards for science and technology at the Provincial and Ministerial level. He ranked the first in the Top 10 Scientific and Technological Progress of Chinese Universities by the Ministry of Education.



## School Basic Data

School Basic Data	
Schools	16
Undergraduate Majors	41
Second Degree Majors	3 (Business Administration, Accounting, Law)
National Key Disciplines	
First- level national key discipline	2
Doctoral and Master Degree Programs	
Doctor's and master's degrees of first-level disciplines authorized	16
First- Level Master's degree authorized by the first-level of the program	34
Post-doctoral Research Centers	15
Number of Faculty	1461
Number of Teachers	976
On-post Ph. D. tutor	365
Academician of Chinese Academy of Sciences	10
Number of Post-doctoral in Station	168

Enrollment Number	
Undergraduates	8443
Postgraduates	6464
professional degree students among postgraduates	3768
PhD students	1779
International students	212

Laboratory	
National Key Laboratory	2
National Service Platform for the Sharing of Sci-tech Resources	1
Key Laboratory of the Ministry of Education	2
Key Laboratory of the Ministry of Natural Resources	4
Key Laboratories of Beijing	4
Key Laboratory of Shanxi Province	1
International Cooperation Base of the Ministry of Science and Technology	1
International Joint Research Center of the Ministry of Education	1
Engineering Research Center of the Ministry of Education	1
Engineering Technology Innovation Centers of the Ministry of Natural Resources	2

(Statistics as of December 31, 2020)



## Important Notes

### Covid-19 Prevention and Control

CUGB resolutely implemented the spirit of the important instructions of the Party Central Committee on pandemic prevention and control work, strictly implemented the relevant requirements of the Ministry of Education and the Beijing government, and effectively implemented the pandemic prevention and control work. In accordance with the work requirements of "tightening the string", "gripping the teeth", "tightening the fist", "holding each other in groups" and "get the job done fast", we coordinated and advanced without delay, made timely and accurate judgment, reasonably deployed the work and made scientific decision, and turned passive situation into active actions. No effort was spared to reduce the impact of the pandemic on security and stability on campus.

After the outbreak of the Covid-19, the party committee of CUGB immediately established a leading group for Covid-19 prevention and control and issued the "Letter to All Teachers



and Students" to express the university's concern to all teachers and students, especially those in Hubei Province. Party Secretary Junjie Ma and president Youhong Sun made video calls with representatives of teachers, students and parents in Hubei, expressing condolences to everyone for their firm confidence in fighting the pandemic. All party members actively supported the pandemic prevention and control, and have donated a total of more than ¥ 610,000 worth of cash and materials. Although the new semester delayed its schedule, the university took advantage of online teaching platform to actively carry out online teaching to ensure that classes were not suspended, teaching methods were updated in time, and teachers' teaching and students' self-learning ability improved. In the graduation season in July, more than 1,800 teachers, students and employees of the university formed a volunteer team to work together to complete luggage delivery for more than 4,300 graduates in more than 700 dormitories. The university created music works such as "Wish You the Best, Wuhan People" and "Expecting You Home". It strengthened publicity and guidance through the Microblog, WeChat and Reddit News as well as short video platforms such as Tik Tok and Kwai, and released university pandemic prevention and control notices and measures to actively promote "the moving deeds" that fully demonstrated the spirit of unity of the staff and students in the fight against the pandemic.

The university has held totally 8 pandemic prevention and control meetings of the leading group, 23 pandemic prevention and control office meetings, printed 25 prevention and control office documents, compiled and printed 187 prevention and control daily and weekly reports, and distributed 460,000 pieces of pandemic prevention supplies such as masks. The teachers and students of CUGB were united to overcome the difficulties together, and have achieved the significant result of "zero covid-19 case".

## Poverty Alleviation

Since 2013, paired assistance has been conducted between CUGB and Hualong Hui Autonomous County in Qinghai Province. In the past 7 years, the university has invested ¥9.09 million in total, introduced ¥9.96 million assistance funds, trained more than 6,500 primary level cadres and technical personnel, and purchased and helped selling agricultural products that worth ¥13.11 million yuan for the less developed regions, and a series of activities and projects were carried out in aspects including education, consumption, science and technology, party building, and industrial poverty alleviation. With the joint efforts of both the county and the university, the poverty rate of Hualong County dropped from 15.1% at the end of 2015 to 0.005% at the end of 2019, and officially withdrew from the list of poverty-stricken counties on April 20, 2020, successfully "getting out of poverty".

In 2020, CUGB made every effort to promote paired poverty alleviation in Hualong County, Qinghai Province. 41 poverty alleviation conferences were held throughout the year, formulating and promulgating the "China University of Geosciences (Beijing) Implementation Measures for Strengthening Paired Poverty Alleviation", and "China University of Geosciences (Beijing) Interim Measures for

the Management of Talents, Work and Life Guarantees for delegated cadres". Working with 10 colleges and universities directly affiliated, CUGB took the lead in forming a "Resources and Environment Poverty Alleviation Alliance" among them, which focused on the "two mountains" theory, jointly set a benchmark of college group-style poverty alleviation cooperation, invested ¥1.02 million special party fees to establish the "Party Building +" poverty alleviation project as an important measure to promote the organic connection of poverty alleviation and rural revitalization, and created a point-to-point village pairing model of "party organization of universities plus township and village party organization", and injected vitality into primary level governance and the development of the village collective economy in Hualong County.

Focusing on the key link of "production and marketing", we will create a consumption poverty alleviation model of "consumption initiative plus theme activities plus agricultural product bazaar plus online streaming of goods-selling". In 2020, the per capita contribution of all teachers and students in CUGB to poverty alleviation exceeded ¥450. With a relatively small scale of the university, a relatively small number of teachers and students, and limited funding, the 6 "Two Hundred" indicators are all over-achieved with high quality and high efficiency in advance, with an average completion rate of 379.4%. The university was awarded the "Top 10 Units of Rural Area-University Purchasing Platform for Targeted Poverty Alleviation" in June 2020, and Tiezhu Dong, a temporary cadre, was awarded "Qinghai Province Advanced Individual for Poverty Alleviation" in September 2020; Zhang Lei, Major Secretary of Zhihaimai Village, Zaba Town, Hualong Hui Autonomous County, Haidong City in Qinghai Province was awarded "National Advanced Individual for Poverty Alleviation" in February 2021.



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## School set-up

- 01 School of Earth Sciences and Resources
- 02 School of Engineering and Technology
- 03 School of Materials Science and Technology
- 04 School of Information Engineering
- 05 School of Water Resources and Environment
- 06 School of Energy Resources
- 07 School of Economics and Management
- 08 School of Foreign Languages
- 09 School of Gemology
- 10 School of Geophysics and Information Technology
- 11 School of Ocean Sciences
- 12 School of Land Science and Technology
- 13 School of Marxism
- 14 School of Science
- 15 Department of Physical Education
- 16 School of Continuing Education



## Faculty

### Brief Introduction

By the end of 2020, there were 1,461 faculty and staff members in the university, including 976 teachers, accounting for 67% of the total faculty. Among the teachers, 276 are professors, accounting for 28% of the total number of teachers; 357 associate professors, accounting for 37% of the total number of teachers; 399 female teachers, accounting for 41% of the total number of teachers; 556 teachers under the age of 45, accounting for 57% of the total number of teachers. There are 15 post-doctoral research centers in the university, with a total of 168 post-doctoral researchers.

There are currently 10 academicians of the Chinese Academy of Sciences, 4 chief scientists of the national "973" project, 7 winners of the National Famous Professors, 7 winners of the National-level Special-term Professors and Scholars of the Ministry of Education, 1 winner of National-level Outstanding Teacher Award, 2 National Outstanding Teachers, 8 Teachers of the National Teaching Project, 13 winners of the National Science Fund for Distinguished Young Scholars, 12 winners of the National Science Fund for Outstanding Young Scholars, and 28 winners of the Trans-century Talents and New Century Talents of the Ministry of Education.

### High-level Talent

#### Academician of Chinese Academy of Sciences

Name	Field
Pengda Zhao	Geology
Hongfu Yin	Stratigraphic Paleontology
Chongwen Yu	Geochemistry
Yusheng Zhai	Geology
Shuguang Li	Geochemistry
Zhenmin Jin	Structural Geology
Xuanxue Mo	Petromineralogy
Chengshan Wang	Sedimentary Petrology
Qiuming Cheng	Mathematical Geology, Mineral Survey and Exploration
Yanxin Wang	Hydrogeology

## National Outstanding Teachers

Name	School	Field
Chengshan Wang	School of Earth Sciences and Resources	Sedimentary Geology
Zhaochong Zhang	School of Earth Sciences and Resources	Petrology

## Winner of National-level Outstanding Teacher Award

Name	School	Approval Time
Danping Yan	School of Earth Sciences and Resources	2011 (The Sixth Outstanding Teaching Award of Colleges and Universities)
		2019 (The fourth batch of the "National Famous Professors" )

## Distinguished Young Teacher in Beijing

Name	School	Approval Time
Ying Guo	School of Gemology	2017 (The First Beijing Municipal Outstanding Young Teacher Award)
Jiawei Chen	School of Earth Sciences and Resources	2018 (The 2nd Beijing Municipal Outstanding Young Teacher Award)
Hao Liu	School of Ocean Sciences	2019 (The 3rd Beijing Municipal Outstanding Young Teacher Award)

## Distinguished Teacher in Beijing

Name	School	Approval Time
Tianfeng Wan	School of Earth Sciences and Resources	2003 (The first Beijing Municipal Outstanding Teacher Award)
Tianfeng Wan	School of Earth Sciences and Resources	2006 (The 2nd Beijing Municipal Outstanding Teacher Award)
Hongwen Ma	School of Materials Science and Technology	2007 (The 3rd Beijing Municipal Outstanding Teacher Award)
Hongwen Ma	School of Materials Science and Technology	
Danping Yan	School of Earth Sciences and Resources	2008 (The 4th Beijing Municipal Outstanding Teacher Award)
Genhou Wang	School of Earth Sciences and Resources	
Jianqiang Chen	School of Earth Sciences and Resources	2009 (The 5th Beijing Municipal Outstanding Teacher Award)
Shengrong Li	School of Earth Sciences and Resources	
Zaixing Jiang	School of Energy Resources	2010 (The Sixth Beijing Municipal Outstanding Teacher Award)
Tailiang Fan	School of Energy Resources	
Zhimin Bai	School of Materials Science and Technology	2011 (The 7th Beijing Municipal Outstanding Teacher Award)
Chunji Xue	School of Earth Sciences and Resources	
Hong Xu	School of Earth Sciences and Resources	2012 (The 8th Beijing Municipal Outstanding Teacher Award)
Bingsong Yu	School of Earth Sciences and Resources	2014 (The 10th Beijing Municipal Outstanding Teacher Award)
Wenhui Huang	School of Energy Resources	
Changhou Zhang	School of Earth Sciences and Resources	2015 (11th Beijing Municipal Outstanding Teacher Award)
Zhongke Bai	School of Land Science and Technology	
Baozeng Chu	School of Science	2016 (The 12th Beijing Municipal Outstanding Teacher Award)
Jie Cheng	School of Earth Sciences and Resources	
Yunxiao Fan	School of Engineering and Technology	2017 (The 13th Beijing Municipal Outstanding Teacher Award)
Wenlong Ding	School of Energy Resources	2018 (The 14th Beijing Municipal Outstanding Teacher Award)
Changchun Zhao	School of Marxism	
Zhidan Zhao	School of Earth Sciences and Resources	2019 (The 15th Beijing Municipal Outstanding Teacher Award)
Jianguo Lv	School of Engineering and Technology	
Wei Zhou	School of Land Science and Technology	2020 (The 16th Beijing Municipal Outstanding Teacher Award)
Xiaoyan Yu	School of Gemology	
Hao Xu	School of Energy Resources	2020 (The 4th Beijing Municipal Outstanding Young Teacher Award)

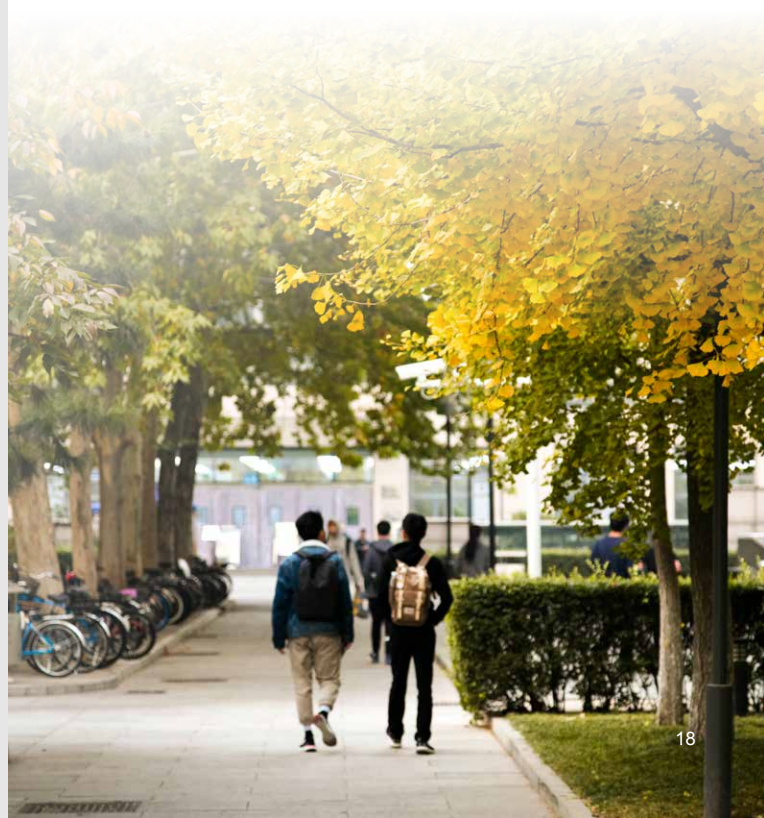


## Winners of the National Science Fund for Distinguished Young Scholars

Name	School	Field
Chengshan Wang	School of Earth Sciences and Resources	Sedimentary Petrology
Xiaoying Shi	School of Earth Sciences and Resources	Stratigraphic Paleontology
Jifeng Xu	School of Earth Sciences and Resources	Geochemistry
Qiuming Cheng	School of Earth Sciences and Resources	Mineral Survey and Exploration
Xianming Xiao	School of Energy Resources	Hydrocarbon Geochemistry
Zhaochong Zhang	School of Earth Sciences and Resources	Petrology
Jun Yao	School of Water Resources and Environment	Microbiology
Hailong Li	School of Water Resources and Environment	Hydrogeology
Dicheng Zhu	School of Earth Sciences and Resources	Structural geology
Gullin Han	Institute of Earth Sciences	Geochemistry
Yun Wang	School of Geophysics and Information Technology	Solid Geophysics
Huaming Guo	School of Water Resources and Environment	Environmental Engineering
Huaichun Wu	School of Ocean Sciences	Marine Geology

## Winners of the National Science Fund for Outstanding Young Scholars

Name	School	Field
Huaming Guo	School of Water Resources and Environment	Environmental Engineering
Huaichun Wu	School of Ocean Sciences	Marine Geology
Xiaowei Jiang	School of Water Resources and Environment	Groundwater Science and Engineering
Shengao Liu	Institute of Earth Sciences	Geochemistry
Hongyi Li	School of Geophysics and Information Technology	Seismology
Keda Cai	School of Earth Sciences and Resources	Structural Geology
Jingao Liu	Institute of Earth Sciences	Geochemistry
Qi An	School of Materials Science and Technology	Nanometer Functional Materials
Tong Hou	School of Earth Sciences and Resources	Petrology of Magmatic Rocks
Yidong Cai	School of Energy Resources	Coal Bed Methane Reservoir Geology
Baogang Zhang	School of Water Resources and Environment	Environmental Biogeochemistry
Yuanchuan Zheng	School of Earth Sciences and Resources	Mineral Deposit Science





## Discipline Development

CUGB seizes the opportunity of “double first-class” construction, centering on the frontiers of disciplines and the needs of economic and social development, to build ecosystem of disciplines dominated by earth system science and supported by multiple disciplines to achieve coordinated development. 7 disciplines including earth sciences, engineering, materials science, environment and ecology, computer science, chemistry, and social sciences have entered the top 1% of the ESI rankings. Among them, the earth sciences have entered the top 1‰ of the ESI rankings.

### National “Double First-class” Discipline and National Key Discipline (First-level)

Geology

Geological Resources and Geological Engineering

### Beijing “Advanced” Discipline

Urban Geological Environment and Engineering

### Key Discipline at Provincial and Ministerial levels (First Level)

Geophysics

Environmental Science and Engineering

Safety Science and Engineering

Management Science and Engineering

Applied Economics

Computer Science and Technology

Marxism Theory

Materials Science and Engineering

Civil engineering

Marine Science

Public Administration

Oil and Gas Engineering

Hydraulic Engineering

Geography

Surveying and Mapping Science and Technology

Design

Offshore Resources and Environment



### First-Level Discipline Doctoral Programs

Applied Economics	Marxism Theory
Marine Science	Geophysics
Geology	Materials Science and Engineering
Control Science and Engineering	Civil Engineering
Hydraulic Engineering	Surveying Science and Technology
Geological Resources and Geological Engineering	Oil and Gas Engineering
Environmental Science and Engineering	Safety Science and Engineering
Management Science and Engineering	Public Administration

### First-level Discipline Master Programs

Applied Economics	Materials Science and Engineering
Law	Information and Communication Engineering
Marxism theory	Control Science and Engineering
Pedagogy	Computer Science and Technology
Psychology	Civil Engineering
Foreign Language and Literature	Hydraulic Engineering
Journalism and Communication	Surveying Science and Technology
Mathematics	Geological Resources and Geological Engineering
Physics	Oil and Gas Engineering
Chemical	Environmental Science and Engineering
Geography	Software Engineering
Atmospheric Sciences	Safety Science and Engineering
Marine Science	Business Administration
Geophysics	Management Science and Engineering
Geology	Public Administration
Biology	Design
Mechanical Engineering	

### Category of Professional Degree

Applied Statistics	Materials and Chemical Engineering
Asset Appraisal	Resources and Environment
Law	Civil and Hydraulic Engineering
Sports	Business Administration
Translation	Public Administration
Electronic Information	Accounting
Machinery	Art



## The Undergraduate Program of China University of Geosciences (Beijing) in the Academic Year 2019-2020

Serial Number	Name of Discipline (Direction)	School
1	Geology (Science Base Class)	School of Earth Sciences and Resources
2	Geology	
3	Geology (Geological Geophysical Complex)	
4	Geology (Geography for Tourism)	
5	Geochemical	
6	Resource Exploration Engineering (Solid Mineral Resources)	
7	Geological Engineering	School of Engineering and Technology
8	Civil Engineering	
9	Mechanical Design, Manufacturing and Automation	
10	Safety Engineering	
11	Materials Science and Engineering	School of Materials Science and Technology
12	Material Physics	
13	Materials Chemistry	
14	Computer Science and Technology	School of Information Engineering
15	Electrical Engineering and Automation	
16	Electronic Information Engineering	
17	Geographic Information Science	
18	Software Engineering	
19	Hydrology and Water Resources Engineering	School of Water Resources and Environment
20	Environmental Engineering	
21	Groundwater Science and Engineering	
22	Petroleum Engineering	School of Energy Resources
23	Resource Exploration Engineering (Energy)	
24	Resource Exploration Engineering (New Energy Geology and Engineering)	
25	Business Administration	School of Economics and Management
26	Accounting	
27	Information Management and Information Systems	
28	Economics	
29	Law	
30	English	School of Foreign Languages

Serial Number	Name of Discipline (Direction)	School
31	Gemology and Material technology	School of Gemology
32	Product designing	
33	Geophysics	School of Geophysics and Information Technology
34	Exploration Technology and Engineering	
35	Measurement and Control Technology and Instrumentation	
36	Marine Science	School of Ocean Sciences
37	Marine Resources and Environment	
38	Land Resources Management	School of Land Science and Technology
39	Surveying and Mapping Engineering	
40	Land Improvement Engineering	School of Science
41	Mathematics and Applied Mathematics	

## The Second Bachelor Degree' s Program

Serial Number	Name of Discipline (Direction)	School
01	Business Administration	School of Economics and Management
02	Accounting	
03	Law	

## Minor Program

Serial Number	Name of Discipline (Direction)	School
01	Business Administration	School of Economics and Management
02	Accounting	
03	Law	





## Talent training

### Enrollment

#### • Undergraduate enrollment

In 2020, a total of 2157 new students were admitted, including 35 law majors, 76 literature majors, 473 science majors, 1196 engineering majors, 296 management (including economics) majors, 50 art majors, and 31 minority preparatory students.

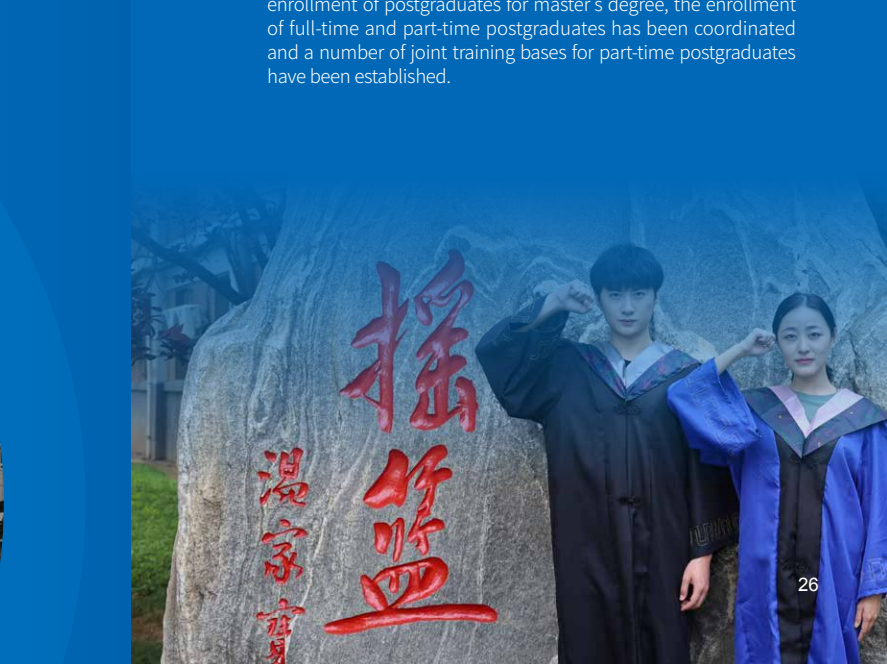
The types of enrollment include unified enrollment, art, ethnic classes, national special projects, university special projects, high-level art troupes, high-level sports teams, inland Xinjiang classes, inland Tibet classes, ethnic special programs, joint enrollment of Hong Kong, Macao, Taiwan and overseas Chinese, Taiwanese high school graduates based on GSAT (General Scholastic Ability Test), outstanding athletes recommend for admission, etc. CUGB continues to implement the "Sunshine Project" in college enrollment to ensure fairness, justice and openness in enrollment. At the same time, it actively responds to the call of the country, paying special attention to the selection of high-quality students from rural areas, minority nationalities, and poverty-stricken regions to promote educational fairness.

#### • Graduate admissions

In 2020, a total of 2,716 postgraduates were enrolled, including 426 full-time doctoral candidates, 2,060 full-time master's students, and 230 part-time professional master's students.

GUGB was one of the first domestic universities to start graduate education. It began to enroll graduate students since 1953 and doctoral students since 1982. The enrollment of graduate students has been guided by national policies, and targeted at different groups of people for master's programs and doctoral programs as well as students from Hong Kong, Macao and Taiwan. The university now enrolls graduate students in multiple disciplines such as economics, law, education, literature, science, engineering, management, and art. The university adopts multiple types of postgraduate enrollment policies, conducting joint enrollment and training of postgraduates with scientific research institutes (Institute of Geological Sciences). CUGB has provided one-on-one assistance to Qinghai University and from whom the university has enrolled students. Currently, there are separate examinations, core ethnic minority nationality programs, retired soldiers with college degree programs, and special plans supporting high-level talent training for national disciplines urgently needed.

CUGB continuously reforms the postgraduate enrollment mechanism, explores and establishes a diversified classification of selection model for postgraduates, and strengthens the selection of high-quality graduate students. In the enrollment of doctoral students, CUGB deepens the reform of the "universal examination"-centered doctoral student enrollment system, and systematically builds a diversified admission mechanism including direct BS/BA to PhD track, successive master-doctor program, application-assessment and universal examination. CUGB has also adjusted and optimized the proportion student source among doctoral students, gradually reducing and controlling the percentage of on-the-job PhD candidates. In the enrollment of postgraduates for master's degree, the enrollment of full-time and part-time postgraduates has been coordinated and a number of joint training bases for part-time postgraduates have been established.



## Categories of Degrees

### Bachelor Degree

Economics	Engineering
Law	Management
Literature	Art
Science	

### Master Degree

Economics	Science
Law	Engineering
Pedagogy	Management
Literature	Art

### Doctoral Degree

Economics	Engineering
Science	Management

### Professional Degree

Master of Applied Statistics	Master of Materials and Chemical Engineering
Master of Asset Evaluation	Master of Resources and Environment
Master of Law	Master of Civil Engineering and Hydraulic Engineering
Master of Physical Education	Master of Business Administration
Master of Translation	Master of Public Administration
Master of Electronic Information	Master of Accounting
Master of Mechanical Engineering	Master of Fine Arts

## Student training

### • Undergraduate Education

According to the “China University of Geosciences (Beijing) Undergraduate Education Quality Improvement Plan (2019-2023)”, the university adheres to the motto of “hard work and plain living, staying realistic and pragmatic”, and the philosophy of “characteristics plus quality”, and comprehensively deepens the development strategy of “quality, internationalization, and informatization”. CUGB sets the training goal of high-quality and innovative talents with “good virtue, solid foundation, extensive knowledge and profound specialty”, walking the path of “enhancing curriculum construction, strengthen classroom teaching, promoting practice, and deepening collaborative education”, always centers on talent training and recognize the fundamental importance of undergraduate education, and forms an education system integrating “general education, professional education and innovation and entrepreneurship education”.

The university actively adapted to the needs of economic and social development by revising the undergraduate training program, innovating the training model, and implementing the fundamental mission of cultivating people with good virtue, in an aim to cultivate high-quality talents with a sense of social responsibility, the courage to practice innovation, and the comprehensive development of morality, intelligence, and beauty. CUGB Optimized the curriculum structure, perfected the general education curriculum system, and constructed the innovation and entrepreneurship education curriculum system, forming three major curriculum systems that integrated “general education, professional education, and innovation and entrepreneurship education”. The university continued to implement the dual degree and major and minor system, implement hierarchical teaching of mathematics, English and other courses, and offered freshman seminars and frontier courses to meet the individual development needs of students.

CUGB always puts students at first, continuously deepening the reform of teaching content and curriculum system, innovating the talent training model, and improving the undergraduate training program, forming a diversified professional talent training model. The undergraduate innovation experiment class selects students for advantageous disciplines, adopts diversified training models, flexible management methods and personalized training programs to stimulate students' desire to explore, taps students' innovative potential, and promotes the emergence of outstanding leading talents in the field of geosciences. The geology science class adopts a direct PhD track program, formulating a separate teaching plan with a tutor system and small-class teaching style that strives to cultivate top talents in geology; the “excellent class” bases on the pilot major set in the Ministry of Education's “Excellent Engineer Education and Training Program” and adopts the “3+1” school-enterprise joint training model for producing more innovative talents in the field of engineering.

## First-Class Major (2020)

Serial Number	Major	Code	Level
01	Mathematics and Applied Mathematics	070101	National
02	Marine Science	070701	National
03	Geophysics	070801	National
04	Materials Science and Technology	080401	National
05	Civil Engineering	081001	National
06	Surveying and Mapping Engineering	081201	National
07	Exploration Technology and Engineering	081402	National
08	Ground Water Science and Engineering	081404T	National
09	Safety Engineering	082901	National
10	Business Administration	120201K	National
11	Geochemistry	070902	Beijing Municipal

## First Batch of National Level First-Class Undergraduate Courses (2020)

Serial Number	Course	Person in charge	Main team members	Type of Course
01	Integrated geology	Yalin Li	Xunlian Wang Yushuai Wei Keda Cai Jun Meng	First-class offline course
02	Petrology (including crystal optics)	Bingsong Yu	Zhidan Zhao Jinxue Du	First-class offline course
03	Sedimentary petrology	Zaixing Jiang	Hongliang Wang Yuanfu Zhang Jianguo Zhang Wenhui Huang	First-class offline course
04	3S Comprehensive Internship	Gang Ai	Xinqi Zheng Chunxiao Zhang Jinxiu Liu Kun Fang	First-class course combining online and offline teaching

## "High-quality Undergraduate Courses" for Universities in Beijing (2020)

Serial Number	Project Name	Lecturer	Type of Course	Type of Project
01	Introduction to Earth Science	Danping Yan	Professional Course	Key
02	Integrated geology	Yalin Li	Professional Course	
03	Mechanics of Materials	Jianguo Lv	Professional Course	
04	Land Resources	Huafu Zhao	Professional Course	

## "High-quality Undergraduate Teaching Courseware" for Universities in Beijing (2020)

Serial Number	Project Name	Chief Editor	Press	Type	Type of Project
01	Crystal optics and rock-forming minerals	Zhidan Zhao	Geological Publishing House	Textbook	Key
02	Introduction to Petroleum Industry	Zhiping Li	Petroleum Industry Press	Textbook	
03	Jade Appreciation and Evaluation	Ying Guo	Higher Education Press	Textbook	
04	Geophysical Logging Tutorial	Changchun Zou	Geological Publishing House	Textbook	

## Excellent undergraduate education team of Beijing universities (2020)

Serial Number	Team Name	Person in Charge	Approval Time
01	Mineral Rock Education Team	Xuanxue Mo	CUGB





## • Graduate Education

The postgraduate education work conference was held in CUGB to implement a series of work deployments of the Ministry of Education and to innovate measures for postgraduate training. 10 actions, such as “reinforcing academic roots, optimizing the proportion of degree programs, strengthening the academic foundation of supervisors and curriculum design, improving the quality of students enrolled, boosting the efficiency of talent training, producing top-notch dissertations, monitoring education quality, cultivating international talents, and ensuring capability improvement” were proposed, and 14 relevant institutional documents have been issued to promote comprehensively the reform of graduate education.

Focusing on the training goal of high-quality and innovative talents with “good virtue, solid foundation, extensive knowledge and profound specialty”, a new round of postgraduate training program revision work has been carried out with the guidance of higher-level departmental documents, and the postgraduate curriculum system has been boldly reformed and innovated. High quality general education is provided with importance attached to professional characteristics of different disciplines as well and practical training needs have been given importance to, and programs for direct PhD track also optimized.

CUGB strengthens the construction of the first-class tutor team to improve the overall quality and level of postgraduate education. In 2020, 131 postgraduate tutors were selected and the first pre-job training for postgraduate tutors was organized. A normalized training mechanism covering all tutors will be established step by step, gradually perfecting the assessment, enrollment qualification review and elimination mechanism for tutors.

Relying on the “Reform Project of Postgraduate Textbooks and Teaching Methods”, CUGB has promoted and deepened the reform of the postgraduate education and training mechanism. In 2020, 22 teaching reform projects were completed and another 6 textbook projects were proposed.

CUGB has been working on diversified and multi-dimensional selection of outstanding graduate students. In 2020, 274 students were recommended to complete master's degree in CUGB without enrollment examination for graduates, and 239 students were admitted as doctoral candidates through direct BS/BA to PhD track, successive master-doctor program, application-assessment and universal examination.

CUGB has carried out a variety of academic exchange activities to effectively promote students' mastery of academic expression, international vision, and scientific research and innovation capabilities. In 2020, the 27th “Excellent Postgraduate Academic Report” were held. Through the project named “Lecture Hall for Graduate Students”, well-known experts in China and around the world were invited to CUGB to offer courses and lectures for graduate students. In the past 5 years, 337 courses were taught and 946 lectures were given by visiting experts. CUGB vigorously implemented the project of “National Construction of State-Sponsored Postgraduates of High-level Universities”, and sent a total of 734 postgraduates overseas, among them 89 were

# 一次李四光优秀学生奖颁奖

CUGB Career Development Bulletin 2021

## 大力弘扬“四光精神” 全面推广地质学教育



doctoral postgraduates, reaching a record high. CUGB has jointly co-organized the “12th Postgraduate International Academic Forum” with countries like Japan, South Korea, Malaysia and etc.. More than 800 teachers and students from CUGB have actively participated in the forum, and about 80 graduate students were awarded “Excellent Academic Reports”. CUGB has been actively sponsoring graduate students to participate in “International Cooperation and Academic Exchange”. Since 2016, 255 graduate students have been funded with a total of amount of approximately ¥8 million.

CUGB has been encouraging graduate students to strive for excellence and innovation which have led to fruitful results. In 2020, 2 postgraduates respectively received the “Li Siguang Excellent Postgraduate Award” and the “Li Siguang Excellent Doctoral Postgraduate Award”; 112 postgraduates and 35 doctoral students received the “National Scholarship”, with a total amount of ¥3.29 million. CUGB improved the funding method for the “Graduate Student Scholarship”. In 2020, the total amount of funding reached ¥70.37 million, benefiting 6,814 students. CUGB vigorously implemented the “Graduate Science and Technology Innovation Support & Award” special funding project. In 2020, a total of 470 graduate students were awarded with a total amount of ¥4.42 million. In 2020, CUGB graduate students published more than 900 SCI papers as the first author, achieving historical breakthroughs; a total of 424 graduate students were awarded “Merit Students”, “Top Ten CUGB Pioneering Students”, “Stars of Self-improvement”, and “Innovation and Entrepreneurship Models” at Beijing municipal level and university level.

### Lecture Hall for Graduate Students

CUGB actively promoted the project of “Lecture Hall for Graduate Students”, inviting prestigious experts and scholars around the world to give academic lectures or short-term courses within 32 study hours, in an aim to promote academic exchanges, build a platform with a high starting point in multiple fields, expand the academic visions of graduate students, and improve the quality of graduate training. In 2020, 41 domestic experts and 15 foreign experts were hired, with a total of 56 lectures for graduate students being given. Among them, 53 lectures, 3 courses were taught by visiting experts, amounting to a total of 202 lecture hours.

## Management and Service of Student Affairs

### • Center of Quality Psychological Education

In 2004, CUGB established a psychological counseling center, and in 2020 it was renamed as “Center for Quality Psychological Education”. CUGB attaches equal importance to psychological care and moral education, and carries out mental health education for all students, providing psychological class, psychological assessment, as well as individual psychological counseling and group psychological counseling. In addition, 4 major activities on “March 25th Self-Caring Day”, “May 25th College Student Mental Health Day”, “10·10 World Mental Health Day” and “10·25 CUGB Psychological Culture Festival” has been designed to promote the coordinated development of students’ mental health, ideology and moral, as well as scientific and cultural quality. In recent years, CUGB has won the second prize of the “Effective University Students’ Ideological and Political Education Award in Beijing”, the “Outstanding Progress Award of Psychological Quality Education in Beijing Colleges and Universities”, and the “Special Work Award of Quality Psychological Education in Beijing Colleges and Universities”.

### • Center for Student Financial Assistance

In 2006, CUGB established a Center for Student Financial Assistance. Adhering to the promise of “no drop out due to family financial difficulties”, CUGB accurately implemented funding policies, further promoted funding for education, continued to strengthen standardized management, and improved the level of funding informationization, establishing a developmental subsidy system featuring the combination of “national funding, school grants, social donations and student self-help”, covering all students from families with financial difficulties. By appointing sponsorship publicity ambassadors, opening up an online publicity platform, organizing sponsorship-education brand activities, setting up “student self-dependent” clubs, carrying out student subsidy voluntary services, CUGB created a dynamic circle of “educating-student funding-cultivating role models-feedback” to support student’s growth and development in an all-round way. In 2010, CUGB was awarded the honorary title of “National Advanced Unit for Student Funding in Higher Education Institutions” by the Ministry of Education, being one of the first 38 universities in the country to receive this honor. In 2013, CUGB was awarded an “excellent” grade in the performance appraisal of the National University Student Financial Aid by the Ministry of Education. In 2017, CUGB won the Excellent Organization Award of Colleges and Universities in the 4th publicity activities themed “Aid Students, Build Dreams and Cultivate Talents” of the Ministry of Education.

### • Academic Guidance Center

In 2009, CUGB established the Student Academic Guidance Center, which is student-centered, demand-oriented, and development-based. It adheres to the fundamental task of cultivating people and provides professional guidance and refined services to all

students. In 2018, the university further improved the academic guidance work mechanism and established a secondary college academic guidance work organization. The university worked together with each college to carry out activities at different levels including “Academic Support Pairing”, “Academic Planning Competition”, and “Role Model Experience Sharing”. CUGB continued to promote the construction of the academic instructor group and the “CUGB Academy” society for academic guidance to stimulate students’ endogenous motivation, create a good atmosphere of study, and promote students’ academic development.

### • Student Comprehensive Service Center

In 2012, CUGB established the Student Comprehensive Service Center. With “serving and growing together” as its purpose, with “facilitating student affairs, solving students’ difficulties, safeguarding students’ rights and promoting students’ growth” as its work objective, it provides one-stop comprehensive services for all students. At present, the business of the Student Comprehensive Service Center involves 6 departments: The Student Affairs Department of the Party Committee, the Academic Affairs Office, the Laboratory and Equipment Management Office, the Security Office, the Logistics Group, and the University Hospital. It has student award services, student ID and bus card processing, activity space application service, teaching affair administration, management of articles for internship, party building service for students, student file query, and employment procedure management service. There are 14 business windows open for students, serving more than 30,000 students annually.

### • Art Education Center (Natural Aesthetic Education Center)

In 2017, CUGB set up an Art Education Center to establish a “four in one” promotion mechanism for universal art education combining teaching, practical activities, campus culture, and art performances. In 2020, CUGB issued the “Detailed Rules for Effectively Strengthening the Work of Aesthetic Education in the New Era” and established the Art Education Center to further promote the vigorous development of natural aesthetics and art education. Combining the characteristics of the geosciences disciplines, CUGB offered quality open courses, all-round natural aesthetic education courses and art education optional courses to enrich the first classroom teaching system. The university started “CUGB Art Season” and other all-round art activities, carried out “CUGB Art Corner” campus performances, Artists Lecture Halls, hand-made experience courses, literary seminars and other forms of aesthetic education practice activities, and improved the construction of the second classroom of aesthetic education.

The “Don’t Give Up” show created by the school percussion band was shortlisted for the documentary “The Power of Inheritance” by China Education Television. In the “The Striving of Youth is the Most Beautiful-- the May Fourth Youth Special Program in 2020”, hosted by the China Central Radio and Television, the orchestra performed the show “Youth”, revealing CUGB students’ graceful bearing and in-depth understanding of art.

## Experimental Teaching Platform

Level	Name of the Platforms
National	Experimental Teaching Demonstration Center for Geology
	National Experimental Teaching Demonstration Center for Geological Resources Exploration
	Experimental Teaching Center for Energy Geology and Virtual Simulation Evaluation
Municipal	Experimental Teaching Demonstration Center for Physics
	Experimental Teaching Center for Computer
	Experimental Teaching Center for Jewelry and Mineral Materials
	Experimental Teaching Center for Land Surveying and Mapping and Geographic Information Engineering
University	Geochemistry Laboratory
	Remote Sensing and Geoscience Information Technology Room
	Quaternary Geological Laboratory
	Resource Exploration Engineering
	Laboratory Experimental Teaching Center for Engineering Technology
	Experimental Teaching Center for Materials Science
	Experimental Teaching Center for Water Resources and Environmental Engineering
	Experimental Teaching Center for Energy
	Experimental Teaching Center for Economics and Management
	Experimental Teaching Center for Language
	Experimental Teaching Center for Gemology
	Experimental Teaching Center for Geophysics and Information Technology
	Experimental Teaching Center for Marine Geology and Resources
	Experimental Teaching Center for Chemistry

### • National Experimental Teaching Demonstration Center for Geological Resources Exploration

In 2012, the National Experimental Teaching Center for Geological Resources Exploration was authorized to build a National Experimental Teaching Demonstration Center. In 2007, based on the 2 first-level national key disciplines of “Geological Resources and Geological Engineering” and “Geology” and other 5 second-level national key disciplines, CUGB restructured the laboratories and practice teaching bases related to resource exploration in the School of Earth Sciences and Resources, the School of Energy, the School of Geophysics and Information Technology and the School of Engineering Technology, forming an Experimental Teaching Center for Geological Resources Exploration. After years of construction and development, the experimental teaching center has formed a comprehensive, fully-functional, open and shared resource exploration experimental teaching system, and has established 5 experimental teaching platforms for solid minerals, energy minerals, prospecting application technology, scientific research and field practice. The teaching center has done a lot of fruitful work in the construction of experimental teaching system, the integration of experimental teaching resources, the combination of teaching and research, the cooperation among schools, scientific research institutes, industries and enterprises as well as international cooperation, etc.





## • National Experimental Teaching Demonstration Center for Geology

In 2016, the National Experimental Teaching Center for Geology was approved as a National Experimental Teaching Demonstration Center. This is the second national experimental teaching demonstration center approved. In 2007, CUGB integrated 9 laboratories such as general geology lab and structural geology lab. Supported by platforms such as the Academy of Sciences, the CUGB Geology Museum, the National Rock, Mineral and Fossil Specimen Database, and the Resource Information Network, CUGB has established 3 teaching platforms of “basic and professional”, “field practice” and “information and shared resources”. Beside, CUGB also established the Experimental Teaching Center for Basic Earth Science, which was rated as the Beijing-level Experimental Teaching Demonstration Center that year. In recent years, through continuous investment, CUGB has greatly improved the hardware and software of the center, which allows the center to take on a new look. With continuous reform and opening up of experimental teaching, a large number of influential practical teaching and research results have been obtained.

## • Experimental Teaching Center for Energy Geology and Virtual Simulation Evaluation

In 2014, the Experimental Teaching Center for Energy Geology and Virtual Simulation Evaluation was approved as a National Experimental Teaching Center for Virtual Simulation Experimental. This is the school's first National Experimental Teaching Center for Virtual Simulation Experimental. The center focused on virtual simulation experiments in the field of energy geology, covering geological content such as sedimentation, structure, geochemistry, oil and gas accumulation mechanism as well as engineering practice such as drilling process and oil and gas field development. Focusing on the direction of geological process reproduction, enrichment mechanism virtualization, engineering platform simulation, the center has built a batch of principle models and developed a batch of virtual simulation experiment teaching software. The center gradually implements the construction tasks of “simulated geological tour”, “walking through oil and gas reservoirs”, “a bird’s-eye view of virtual wells”, and “flourishing unconventional geology development” in accordance with the principles of modeling, proceduralization of virtual reproduction, and the combination between virtual reality and reality. The center has gradually quantified geology history, correlated multiple minerals, specified the process, visualized geological fluids, actualized engineering technology, virtualized classroom teaching, and informationized teaching resources.



## Career Development and Employment Guidance

CUGB attaches great importance to the employment of students, and always bears in mind the importance of professional training throughout the education for students, adheres to the “three early” principles of early research and judgment, early planning, and early action, to implement employment policies, clarify work responsibilities, and keep pushing towards goals. CUGB continues to promote the precision, refinement, and quality of students’ employment, and build an all-round employment education layout involving all students and instruct the whole process. CUGB strengthened the ideological education of employment, carried out in-depth new “Three Glory” educational activities, guided CUGB students to establish scientific outlook on employment, and encouraged graduates to apply for jobs or start business in western China, at the grassroots level, and in key areas. CUGB carried out activities including the “2314” employment promotion project, career development month, employment mobilization season, making efforts to provide students with higher level and better quality guidance. CUGB has built a precise and integrated employment system, with a three-dimensional and diversified working model online and offline, on-campus and off-campus, and at two levels of respectively university and school to increase the percentage and quality of employment for graduates. The school’s employment work has been reported by many media including China Education News Network, Beijing Television, “Capital Education” of Beijing Municipal Education Commission, “Successful Employment” of Beijing University Employment Guidance Center and many other media.



## Scientific Research

CUGB promotes the construction of “big science initiative”, “major science equipment” and “major science and technology project” in an orderly manner. The university has also improved the scientific research management system and enhanced scientific management capabilities, given full play to the academic leadership role of the Academic Committee, optimized and improved scientific research evaluation methods, encouraged the output of high-level scientific research results, improved the transformation of scientific research results and social service capabilities, and focused on the training of research-oriented young talents. Basic research and innovation capabilities continue to increase, and outstanding achievements continue to emerge.

### Major Scientific Research Projects/Plans

- **Three National Key Research and Development Programs approved:**

“Metal isotope tracing technology of deep carbon and oxygen cycle”, the key special project of “Key scientific issues of transformative technology”, chaired by Shengao Liu

“Causes and Treatment Technology of Site Soil Pollution”, the key special project of “Pollution Remediation Technology and Engineering Demonstration in the Affected Area of Southwest Non-Ferrous Metal Smelting Site”, chaired by Jun Yao

“Key Technologies and Demonstration of Standardized Mapping of Planetary Geology”, key special project of “Intergovernmental International Cooperation in Science and Technology Innovation”, chaired by Zhizhong Kang

- **87 projects approved by the National Natural Science Foundation of China**, including 8 key projects of various types

- **5 Three Major fund projects in Social Science approved**, including 1 National Social Science Fund, 3 Social Science Funds of the Ministry of Education, 1 Beijing Social Science Fund

- The Deep-Time Digital Earth Project (DDE) international major science project continues to advance with Academician Chengshan Wang as the chief scientist





## High-level Academic Achievements

- In 2020, as the first signature unit, CUGB published 1,241 high-level academic achievements, including 106 iconic academic achievements. It's a breakthrough in both quality and quantity.
- 5 professors, Dicheng Zhu, M.Santosh, Zhidan Zhao, Yihe Zhang, and Hongwei Huang included, were selected as Clarivate Analytics' global "Highly Cited Scholars" list in 2020.

## Scientific Technology Awards at or above the Provincial and Ministerial Level

- **The 13th Guanghua Engineering Science and Technology Prize (the highest prize in the field of engineering in China)**

received by Youhong Sun

- **First Prize of Land and Resources Scientific Technology Award (2 items)**

The evolution and mineralization of the Honghe-Ailaoshan-Song Ma structural belt

The formation mechanism and major exploration discoveries of multiple sweet spots of continental shale oil and gas

- **The Second Prize of Natural Science Award (1 item) for Outstanding Achievement in Scientific Research (Science and Technology) of Institutes of Higher Learning by the Ministry of Education**

Lithospheric extension and reconstruction of the Cretaceous North China Craton

- **Second Prize of Land and Resources Science and Technology Award (1 item)**

Theory and Application of Permeability Structure of Aquifer System

- **Second Prize of Beijing Municipal Science and Technology Progress Award (1 item)**

Research and Application of Numerical Simulation Theory and Algorithm for Complex Oil and Gas Reservoirs

## Talent Training of Scientific Research

- "The Qinghai-Tibet Plateau Lithosphere Evolution and Mineralization Innovation Team" was selected as the innovation team in key field in Innovation Talent Promotion Plan of the Ministry of Science and Technology in 2019 (project leader: Zhidan Zhao)
- 2 projects were approved as the "Outstanding Youth Foundation Project" of the NSFC (Project leader: Baogang Zhang, Yuanchuan Zheng) 1 was selected as Beijing Science and Technology Rising Star (Kunfeng Qiu)
- 1 person was selected as Beijing Science and Technology Rising Star (Qiu Kunfeng)
- 15 were selected into the sixth batch of "Truth-seeking Scholars" project (Chao Wang, Na Tian, Bo Xu, Dawei Sun, Huajiao Li, Song Li, Kunfeng Qiu, Wei He, Laiming Zhang, Jun Meng, Liang Gao, Jiajie Kang, Gavin Sister, Zhiguo Cheng, Yunchuan Zeng)

## Platform Construction of Scientific Research

CUGB has 19 scientific research platforms, including provincial and ministerial key laboratories and engineering centers. There are 3 national, 16 provincial and ministerial research platforms. In 2020, 1 provincial and ministerial key laboratory has passed the assessment successfully.

- **National Key Laboratory (2)**  
National Key Laboratory of Geological Processes and Mineral Resources  
National Key Laboratory of Biogeology and Environmental Geology
- **National Science and Technology Resource Sharing Service Platform (1)**  
National Rock and Mineral Fossil Specimen Resource Bank
- **Key Laboratory of Ministry of Education (2)**  
Key Laboratory of Marine Reservoir Evolution and Hydrocarbon Accumulation Mechanism, Ministry of Education  
Key Laboratory of Groundwater Circulation and Environmental Evolution, Ministry of Education



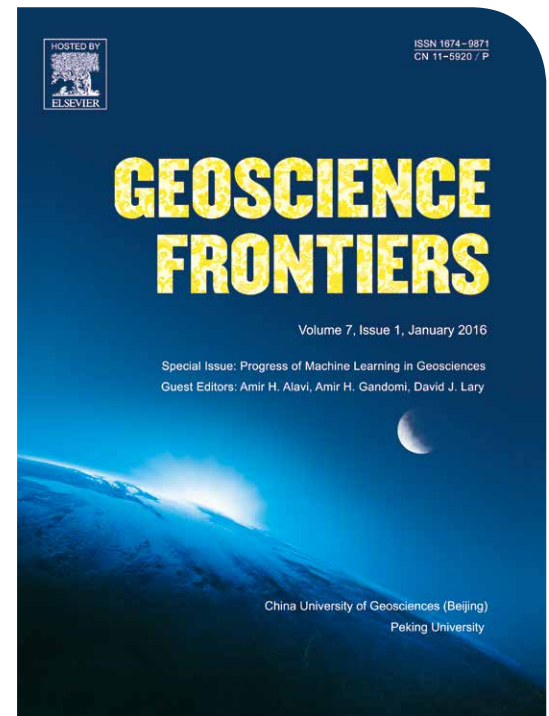




- **Key Laboratory of Ministry of Natural Resources (4)**  
Key Laboratory of Deep Geological Drilling Technology, Ministry of Natural Resources  
Key Laboratory of Shale Gas Resource Strategic Evaluation, Ministry of Natural Resources  
Key Laboratory of Land Consolidation, Ministry of Natural Resources  
Key Laboratory of Resource and Environmental Carrying Capacity Evaluation, Ministry of Natural Resources (jointly built)
- **Beijing Key Laboratory (4)**  
Beijing Key Laboratory of Information Research and Development of Land and Resources  
Beijing Key Laboratory of Water Resources and Environmental Engineering  
Beijing Key Laboratory of Unconventional Natural Gas Energy Geological Evaluation and Exploitation Engineering  
Beijing Key Laboratory of Material Utilization of Nonmetallic Minerals and Solid Waste Resources
- **Key Laboratory of Shanxi Province (1)**  
Shanxi Provincial Key Laboratory of Resources, Environment and Disaster Monitoring (jointly built)
- **International Cooperation Base of Ministry of Science and Technology (1)**  
International Science and Technology Cooperation Base for Key Technologies of Deep Geological Drilling Equipment and Tools
- **International Joint Research Center of Ministry of Education (1)**  
International Cooperation Research Center for Lunar and Planetary Exploration of Deep Space Exploration Joint Research Center
- **Engineering Research Center of Ministry of Education (1)**  
Engineering Research Center of Metal Mineral Exploration and Evaluation, Ministry of Education
- **Engineering Technology Innovation Center of Ministry of Natural Resources (2)**  
Mining Area Ecological Restoration Engineering Technology Innovation Center  
Big Data Engineering Technology Innovation Center of Land and Space (jointly built)

## Intellectual Property Rights and Achievements Transformation

- **Horizontal Technology Project:** ¥ 103 million received, increasing for 4 consecutive years, and exceeding 100 million yuan after 2014.
- **Authorized patents:** The number of newly authorized patents reached 397, including 100 domestic inventions, 26 international inventions, 136 new utility models and 29 appearance designs.
- **Achievement transformation:** 12 patent transfer and licensing contracts have been signed. The sum of those contracts is ¥ 12.11 million, exceeding the threshold of ¥ 10-million for the first time.



## Scientific Journals

### • 《Geoscience Frontiers》

According to the JCR report released on June 29, 2020, the journal has a 2-year impact factor of 4.202 and a 5-year impact factor of 5.379, which ranks 22nd among 200 journals in the field of earth sciences and interdisciplinary fields in Q1 quartile. According to the Scopus database statistics in 2019, the journal's three-year impact factor (CiteScore) is 7.4, ranking 9th, or the top 10%, among 187 journals in the field of basic earth and planetary science. It is also selected as "2020 China's Most Internationally Influential Academic Journals" and "2020 Outstanding Science and Technology Journals of Chinese Universities".

### • Earth Science Frontier

In 2020, 214 papers were first published on CNKI. A total of 4 Chinese papers including "The Core Values of Chengjiang Fauna: The Formation of the Animal Kingdom and the Birth of Human Basic Organs" (Degan Shu, etc.) were translated into English and produced corresponding press releases and infographics for international publicity, and two of the the papers were also made into promotional videos. According to the scoring of the paper quality automatically collected by readers on the international publicity platform of Cactus Business Information Consulting Company (Shanghai), 4 papers are in the range of 40 to 85 points (generally 30 points are good), and they are well received by readers. The journal cooperated with TrendMC in the promotion of journals to improve the presence of its papers on various journal websites (there are more than 500 alliances including Science). In 2020, the paper "The Core Value of Chengjiang Fauna: The Formation of the Animal Kingdom and the Birth of Human Basic Organs" was published and pushed 11581 times to 62 international journals and websites in 27 days. It was also selected as "2020 China's Most Internationally Influential Academic Journals", "The 5th China Excellent Science and Technology Journals", and "2020 Outstanding Science and Technology Journals of Chinese Universities". The paper "Method and application of tectonic stress field simulation and fracture distribution prediction in shale reservoir" published by the scientific research team of Professor Wenlong Ding in the second issue of "Earth Science Frontiers" was selected as the "2020 Excellent Papers of Chinese Science and Technology Journals" by the Chinese Association for Science and Technology, becoming one of the 10 outstanding papers in the Earth Science Cluster.

### • Modern Geology

Selected as one of the "Top 100 Science and Technology Journals of Chinese Universities in 2020".

### • Resources and Industry

According to the Annual Report of the Impact Factor of Chinese Academic Journals (Humanities and Social Sciences 2020 Edition), the comprehensive impact factor of the journal is 1.037. In the discipline of economic planning and management, its impact index ranks 14/42, and it is successfully selected as a high-quality journal in the T2 category in the field of natural resources in 2020 (Classified catalog of high-quality scientific and technological journals in the field of geographic resources of the Chinese Geographical Society and the Chinese Society of Natural Resources).



# Campus cultural construction

In 2020, CUGB focused on its fundamental mission of cultivating talents with good virtue, took geoscience characteristics as the foundation of campus cultural construction, made every effort to build a "CUGB" characteristic campus culture brand, implemented the "CUGB Cultural Construction Project", and use the brand name "CUGB" to make a strong tie between teachers, students and alumni.



## Campus cultural brand

The history of CUGB development rooted in geosciences. The collection of audio-visual materials and related historical materials of 9 retired teachers reconstructed the history of CUGB. The manuscripts of the 40th anniversary celebration of the elder generation of leaders and alumni have been sorted out.

Campus landscape was redesigned to highlights the geosciences characteristics of CUGB. The campus was decorated for the anniversary celebration, freshmen-welcoming, and back-to-school greeting. During the anniversary celebration, the university designed and produced the publicity map themed with "Bear in mind the original motivation CUGB has carried forward for 68 years, and pass on the fine tradition of contributing to the country by advancing the field of Geology" and put it on staircase in front of the library. A geological theme wall was designed and set up in multi-function building at the southwest side of the campus with 3 boards displaying major geological themes on "Exploring the earth and protecting the homeland, cherishing the environment and protecting the ecology system"; Paintings were made on manhole covers with geological themes on paleontology, jewels and minerals, topography and landforms. The large-scale slogan on the playground was replaced with "Energetic New Generation, Carrying Forward the Past and Opening Up to the Future".

Culture and art rooted in geosciences became prosperous in CUGB. Originally created songs and MVs such as "Song of the CUGB", "I Love You CUGB", "Cradle of the CUGB", "Wish You the Best, Wuhan People", "Expecting You Home", "Tiandi Yoyo" and others were released, which were reported by multiple media such as the Xuexiqiangguo platform. A special session of the lecture "Beijing Role Model" was held in the CUGB Lecture Hall, and 6 members of the report team told the role model stories of teachers and students of our university.

Promote the CUGB logo that perfectly reflects the essence of geosciences. CUGB complete the design and promotion of the school's visual identity system with the "CUGB" element as the core. The "CUGB" element is taken as an important part of the school's overall image, so as to fully display and publicize the school's brand and image, enhance the self-confidence, pride and cohesion among teachers, students and alumni so as to further promote the school's popularity and reputation. The CUGB logo is widely used in all kinds of activities at all levels in CUGB and is deeply loved by teachers, students and alumni. A series of cultural and creative products incorporating "CUGB" elements such as the blue school badge for teachers, the silver school badge for students, and the golden school badge for alumni have been designed.





## Natural and cultural education

Under the Five-Sphere Integrated Plan CUGB has implemented the strategy of "coordinating and advancing the overall layout of the 'five in one'", taking "ecological civilization" as the core, "natural culture" as the characteristic and "geoscience culture" as the foundation, and integrating resources on the basis of the former Geoscience Development and Research Center. On June 30, 2020, CUGB was the first to establish an interdisciplinary scientific research institution integrating teaching, scientific research and management in China--the Institute of Natural Culture.

The Institute of Natural Culture is committed to exploring a multi-dimensional cultural view of the nature on mountains, waters, forests, fields, lakes and grassland, and has formed a teaching and research layout made up of 3 doctoral majors and 5 master's majors.

Innovative cultural education philosophy. The "Tuesday Lecture Hall · Nature and Culture Lecture Series" was opened for students, with well-known experts and scholars in related fields as lecturers, and thousands of teachers and students have participated the events.

Actively carry out natural and cultural research. The research project "Practice and Research of Natural Culture Education Model from the Perspective of Ecological Civilization" was successfully selected as the "2021 Excellent Ideological and Political Work Project in Higher Education Institutions" by the

Ministry of Education. At the same time, special researches continue to be carried out around subjects of the school's professional disciplines, geological history, geological philosophy, geological education and CUGB history.

Vigorously promote the construction of branch schools. Branch schools were set up in cooperation with Taishan UNESCO Global Geopark, Zhangye UNESCO Global Geopark, China Coal Pingshuo Group Co., Ltd, National Maritime Museum and Xiangxi Tujiazu & Miaozi Autonomous Prefecture to establish a branch.

International exchanges have been carried out smoothly. In December 2020, the sixth "UNESCO Global Geopark Management and Development International Training Course" hosted by CUGB was successfully held in Yimeng Mountain UNESCO Global Geopark in the east China city Linyi.

Continuously expanding the field of natural and cultural research. In cooperation with the Chinese Writers' Association for Natural Resources, literature writing on nature and participation in the school's cultural education work is encouraged and writers in this field are to be offered school-based writers and specially-appointed writers. In December 2020, the Chinese Writers' Association for Natural Resources and CUGB jointly organized the "Chinese Gem Literature Award". Since then, the award with a 30-year-old history found its base and settled in CUGB.

Reinforce "the Wing of Science" to foster innovation and development of the university. During the pandemic, a monthly event on "Positivity of Earth Science, Voice of Science Popularization" was held, and later it was reported on the "Xuexiqiangguo" platform. CUGB was awarded the title of "Top Ten Outstanding Organizations of the Association for Science and Technology of Universities in 2020" on the National Science and Technology Workers' Day by the Chinese Association for Science and Technology.





## Life on Campus

### Innovation & Entrepreneurship

At CUGB, education aimed at the promotion of innovation and entrepreneurship is highly valued. The university has established a wide-ranging, diversified and practical system in which students may engage in innovation and entrepreneurship, fostering an enabling environment on campus. At the experience center of "Creator's Lab", through interest-driven activities like the Creative Sand-table Exercise and Saloon & Workshop on Innovation and Entrepreneurship, students are motivated and trained at the same time. Apart from this, the practice center of "Creator's Space" has launched a wide array of events, such as the Exhibition on Innovation and Entrepreneurship, the Creative Bazaar, and the Creator's Career Fair, offering mind-broadening opportunities as well as diverse channels of exchange, and empowering students for innovation and entrepreneurship. Moreover, the training platform of the "Cradle's Cup" Innovation and Entrepreneurship Competition for College Students further integrates the relevant resources, and facilitates the launch of entrepreneurial projects. Supported by the project of building school-level centers for innovation and entrepreneurship, the university is mapping a blueprint that promises well-rounded progress.

In 2016, CUGB was listed among the first nominees of "Demonstration Bases for Entrepreneurship among Colleges and Universities in Beijing" and the second "Bases for Education on Innovation and Entrepreneurship among Colleges and Universities in China". From 2018 to 2019, the university won Best Organization Award and Outstanding Organization Award for outstanding entrepreneurial teams in Beijing. CUGB's efforts to promote innovation and entrepreneurship were covered by multiple news outlets, including Xinhua and the China Journal of Natural Resources.

In recent years, students at CUGB won numerous prizes and awards from competitions of innovation and entrepreneurship, including: 1 Silver Award and 1 Bronze Award in the national final of China College Students' "Internet+" Innovation and Entrepreneurship Competition; 1 Gold Award, 3 Silver Awards and four Bronze Awards in China College Students' "Challenge Cup" Innovation and Entrepreneurship Competition; First prizes, Second prizes and Third prizes won by 47 teams from CUGB in the Beijing regional final of China College Students' "Internet+" Innovation and Entrepreneurship Competition; the award of Outstanding Entrepreneurial Team among Colleges and Universities in Beijing won by 27 teams from CUGB; and the honor of "Outstanding Organization Award" for outstanding entrepreneurial teams in Beijing received by the university. At the 55th Higher Education Expo China, the university received wide recognition for presentation with the theme of "Progress in Education for Innovation and Entrepreneurship: A Showcase of Student Projects", as the first university to ever present such a theme.

### Extracurricular Awards for Academic & Technological Progress

Starting with the "Challenge Cup" Competitions, and relying on the competition and platform of the "Innovation and Entrepreneurship Training Program for College Students", the university strives to promote innovation and entrepreneurship by raising the awareness for entrepreneurship, and fostering innovative minds and entrepreneurial spirits. At the Beijing regional final of the 12th "Challenge Cup" Business Plan Competition for College Students, CUGB won 8 prizes, including 1 Gold Award, 3 Silver Awards and 4 Bronze Awards. The project Clean Sky: Environmentally-Friendly and Smart Transformation of Public Toilet in the Post-COVID era by Jingxue Zhang (student) and Qinghai Yu, Tingting Jiang and Hua Sun (instructing teachers) won the Gold Award, qualified for national finals.





## Social Practice

In the social practice for the summer vacation of 2020, launched as ideological and political workshops, 270 teams from CUGB, involving 2313 students and members of the faculty, participated in the campaign of "Service to the Nation by the Youth" Beijing Summer Vacation Social Practice for College and Middle School Students, and finalized their respective projects.

At the awarding event, the university was awarded with Advanced Unit for Summer Vacation Social Practice, 6 teams were awarded with "Outstanding Team", and 12 students and faculty members won prizes of "Excellent Staff" and "Outstanding Individual". In the themed event of "Inspire and Empower" Poverty Alleviation through Education held by the Instruction Center for Social Practice at CUGB, focusing on 10 middle schools in Hualong County, Qinghai Province, students and faculty members helped 226 children with their wishes "one on one", and proposed the "School-Specific" plan for building high-quality social practice programs.

## Student Associations

As organizations established by students for interests and hobbies, student associations are the key to carrying out the fundamental mission of cultivating people with good virtue, and to promoting well-rounded education. At CUGB, there are 63 registered student associations, covering categories of the ideological and political, the academic and technological, innovation and entrepreneurship, culture and sports, volunteering, and self-discipline and mutual assistance. Put together, members of these associations exceed 2,500. Over 50 small and medium-sized student association events were held throughout the year, going down in number as a result of the COVID-19 pandemic.



## Volunteer Activities

In 2020, the university organized 62 volunteering projects for large-scale competitions, public welfare events, campus services, etc. Over the 85,000 hours of volunteer service, more than 17,000 volunteers were mobilized. CUGB offered volunteer services to competitions that include China International Fair for Trade in Services and Beijing-Tianjin-Hebei Swimming Competition. In communities, the university held nearly 100 volunteering events, engaging a total of 1,500 volunteers for 4,300 service hours. In addition, CUGB introduced new on-campus volunteer services, including Guidance in the Cafeteria, "Guardian of the Bin" for Garbage Sorting and "Clean Plate Campaign". The Volunteer Team named "Crazy Stone" for Jewelry Knowledge Introduction won the Bronze Award in the 5th China Youth Volunteer Service Project Competition; and the Warm Sunshine Volunteer Project won the Bronze Award in the 2020 Beijing Volunteer Service Project Competition.





## Events for Culture and Art

With respect to Culture and Art, the university has held a wide range of invigorating, up-lifting and entertaining on-campus activities that have been well-received, enriching students' life on campus. Guided by the three-in-one model of "cultural and artistic enlightenment as the core, cultural events as the carrier and artistic expression as the means", the Student Art Troupe strived to enhance its core competitiveness and foster an enabling campus environment for culture and art.

In 2020, from the perspective of geo-culture, students and faculty members at CUGB created recitations, dramas, musicals, songs and dances that have tapped into the essence of traditional Chinese culture and accounted for the special circumstances of the pandemic, including "The Motherland will Remember", "Never Give Up", "Wish You the Best, Wuhan People", "Side by Side with You", "Ordinary Hero", and "Expecting You Home" (short music films), "Ordinary Angel" (finger dance), "Song of the CUGB", "I Love You, CUGB", "Cradle of the CUGB" (original musical collections), A Tribute to Heroes in Harm's Way (recitation), Laughter in Wrath (drama), CUGB Percussion Drama (musical), Youth in CUGB (song), Life (dance), etc.

CUGB worked to bring refined arts to the campus, encouraging students to appreciate the charm of professional artists and fine traditional Chinese cultures. To that end, the university held large-scale events, such as a "Cloud-Version" of Graduation Ceremony and "Singing a Song for CUGB" Lectures by Artists. Throughout the year, more than 40 art-related events were held.



## PE & Sports

CUGB is equipped with one standard track-and-field ground, 2 standard soccer fields, 1 five-a-side soccer field, 14 basketball fields, 4 volleyball courts, 3 tennis courts, and areas designated for such outdoor sports as rock climbing, Outward-bound training, orienteering and survival trainings. The total area stands at about 46,000 square meters (around 3 square meters per student). The university offers 18 PE courses, including soccer, basketball, volleyball, table tennis, badminton, tennis, track and field, swimming, martial arts, Taekwondo, fitness course, aerobics, dance sport, yoga, rock climbing, Outward-bound training, survival trainings and orienteering. In 2020, the university held the Beijing Orienteering Championship for College and University Students.

## Education through Labor

The university has sped up the construction of an education system for all-round cultivation of morality, intelligence, aesthetics and labor, and formulated the Action Plan for Practical Improvement of Education through Labor in the New Era. Labor education has been integrated into CUGB's teaching program, and labor performance has been incorporated into the student evaluation system for comprehensive performance, thereby making solid progress in promoting labor education. In this process, day-to-day education has been conducted through work-study system, campaigns for civilized dormitory and the Clean Plate Campaign; service-oriented labor education has been implemented via volunteer services, themed events and social practice; and production-oriented labor education has been carried out relying on practice & experiment, innovation and entrepreneurship, graduation projects, etc. In 2020, CUGB took solid steps to improve labor-oriented education. Relevant efforts include: Patriotic Sanitation Campaign, garbage sorting, Clean Plate Campaign, Inspection and Cleaning for Dormitory Safety and Sanitation, the original production of There is Glory in Labor celebrating labor-oriented education, and performances such as "Labor Education on Campus".

## International Cooperation & Exchange

### Brief Introduction

In 2020, the university secured 2 more Bases for Introducing Top Disciplinary Talents to the University and implemented 11 additional nation-level talent recruitment programs (including 1 Overseas Young Talents Program, 2 “Belt and Road” programs, and 8 High-end Overseas Talent Programs) and 1 China-CEEC Joint Education Program. The university recruited 6 more foreign teachers for courses taught in and related to the English language, all of whom graduates from world-renowned universities. In addition, 9 students were sent to University of Waterloo, the University of Edinburgh and the University of North Carolina at Pembroke for subsidized studies.

### International Conference

In 2020, CUGB encouraged faculty members to engage in international cooperation and exchanges taking advantage of the combined convenience brought by online meetings and online + offline gatherings. Nearly 30 foreign experts and scholars from 10 countries took part in 5 international academic conferences held by CUGB in 2020, including International Video Conference for Multi-Well-Hole Deep Underground Observation and Experiment, the 2020 International Underground Water Conference, International Conference on the Existence Form of Antibiotics and Self-Cleaning Ability of Groundwater System, 2020 Annual Conference of the Committee for Sustainable Development, Regional Science Association of China (RSAC), and Symposium on Frontier Research Topics and Detection Technology of Polar Ice Sheet.

## China-Africa 20+20 Collaboration Project

The university actively engaged in the “1+1+N” bundled cooperation model between Chinese and African universities, and made effective efforts to champion the “20+20 cooperation project between Chinese and African universities”. 1 teacher from the University of Namibia has enrolled at CUGB for doctoral studies, and 3 have graduated (with 1 Master’s degree and 2 PhDs). Through collaboration, faculty members of CUGB and UNAM published 2 SCI papers on international journals. Furthermore, the university donated masks, disposable gloves and COVID-19 test kits and other supplies to UNAM.

### Confucius Institute

In 2020, the personnel transfer process of UNAM Confucius Institute was completed. Confucius Institute now has 15 Chinese teaching centers in Namibia. The university continued to promote the integration of Chinese language courses into Namibia’s national education system, and to assist UNAM for establishment of the undergraduate major of the Chinese language.

### International Students

In 2020, CUGB saw 212 international students from 65 countries and regions pursuing their academic futures here, including 66 doctoral students, 75 graduate students, 56 undergraduate students and 15 students on language program. During the COVID-19 pandemic, the university offered online courses to overseas students that were off-campus to ensure the quality of education. The enrollment and management system for international students has been developed and came into service.







## Continuing Education

Adult higher education in China University of Geosciences (Beijing) started from the night college program launched in 1956, and correspondence courses were introduced in 1958, making the university one of the earliest institutions to engage in adult education in China. In 2008, upon approval by the Ministry of Education, the university begun independent trials of modern distance education. The School of Continuing Education, a second-level teaching unit established in 2009, manages continuing education programs, such as adult higher education, modern distance education and non-academic training. With over 40 teach-on-correspondence stations, teaching centers and off-campus learning centers in China, the school was born from the merger of the former School of Adult Education, the School of Network Education, and the Center of Continuing Education. Tapping into human-centered services, the school built an open system for modern distance education aimed at creating an education system for lifelong learning with standardized management. Equipped with state-of-the-art teaching facilities, functioning teaching websites and rich teaching resources, the school offers programs that meet individualized needs of learning, and provides students with full support.

Committed to the guiding thought of "soft power-oriented development, improved quality and extended service" and the teaching philosophy of "science-based operation, standardized management, quality assurance and high efficiency", the School of Continuing Education focuses on demands that arise from economic, social and industrial development in China. The school strives to create a unique brand of continuing education supported by high teaching quality. Tapping into the university's advantages in Geology, Resources, Environment, Engineering Technology, Safety Engineering, Geoscience and other disciplines, the school seeks to integrate high-quality educational resources both within and outside the university, so as to promote online education research and the disciplinary excellence of continuing education. Faced with changing information technologies and fast updates in education theories, CUGB needs to cope with the complex and capricious market environment, and actively explore the development trend of the field under the fresh circumstances, so as to further improve its teaching quality and management standard, and foster high-quality application-oriented professionals for the country.





## Public Service

### Library

The primary functions of National Geological Library of China include the collection, processing and exploration of geological documents. In addition, the library engages in relevant research projects and informatization tasks, and provides information services of geological literature to the public. National Geological Library of China, the largest library of the field in Asia, has a collection of nearly 800,000 volumes (books), including domestic and overseas literature of nearly 200 years since the enlightenment of modern geology, and over 10,000 geological maps of countries across the globe. Moreover, the library boasts more than 40 large databases of literature, and shares links with nearly 400 geological institutions from over 60 countries and regions for exchange and mutual lending of literature. National Geological Library of China is the managing director of Library Society of China, director of the China Society for Scientific and Technical Information (CSSTI), and one of the first Bases of Land and Resources for the Popularization of Science.

### Informatization

#### • Building Campus Network Infrastructure

The campus network adopts a three-layer Ethernet architecture of access to convergence to core, a multi-core star network. The core of the campus network consists of 2 computer rooms, covering a total area of 350 square meters. The campus network encompasses 46 buildings for teaching, research, administrative offices, student dormitories and family area. The network is equipped with over 20,000 network nodes, more than 20,000 users and 4,000 wireless APs. The campus wireless network achieves delayless roaming throughout the campus both indoor and outdoor. Additionally, the wireless network comes with a level of stability and performance comparable to that of wired network, giving rise to a new pattern of campus network with wireless network as the primary service provider and traditional wired network as the auxiliary one.

To respond to the needs for wireless network (WiFi) roaming service during exchanges and visits among students and faculty members, CUGB officially joined eduroam in November 2020, and launched the universal eduroam wireless roaming certification service in December, a free service provided worldwide.

CUGB upgraded the bandwidth of campus network to 10G, thus reducing network congestion, and further improving the response speed and hit ratio of user access. Network equipment like core switches, charging gateways, load balancing and outbound firewalls are extended to physical links of 40G; and full IPV6 coverage of wired and wireless campus network is achieved.

The university worked to further the construction of 5G private network on campus, reduce the costs of network construction and operation, and improve service capabilities. CUGB spared no effort in promoting cloud desktop and network disk applications, attracting 325 cloud desktop users with 67 sets of associated terminal devices, and 1,534 network disk users.

## ● Building Smart Campus

In terms of the digital campus, an information-based and comprehensive service system that incorporates teaching, research and management has been built, allowing the university to enter into a new stage in building Smart Campus.

Information gateways provided by the university, covering most application systems, have become a major channel for students and faculty members to obtain, analyze and process information, creating a public platform of information service at CUGB. By building the platform of data center, information silos are gradually eliminated. In addition, the application systems of digital campus have become integrated with one another, enabling the ordered transmission, sharing and application of data across different systems, and providing support in decision-making and basic data support for management of the university. The OA system has been extensively adopted on campus, and multiple items at the university level and department level that used to be offline are now processed online. These efforts have brought all-round improvements in office efficiency, and have helped create an innovative office model. The WeChat corporate account "CUGB Information Service" was improved. Covering the digital campus application system, one-card system, gateway system and the CUGB mailbox, the account is increasingly a mobile platform for inquiry and administrative processing.

The CUGB Student Affairs System and the Campus Entry-Exit Management System were launched to assist in the university's efforts for COVID-19 prevention and control. A number of application systems, including those dedicated to personnel, finance, graduate students and scientific research, were upgraded. The integrated system of property, procurement, and equipment & asset management has been built. Efforts to promote application systems have brought significant benefits.

## ● Building Digital Library

Digital library, as CUGB's literature & information center, is a critical auxiliary institution for teaching, research and the pursuit of disciplinary excellence. In building the digital library, tasks relating to foreign language resources aim to meet the teaching and research needs of key advanced disciplines, such as Geoscience, Environment, Engineering, Energy and Materials, whereas tasks concerning Chinese language resources focus on meeting the teaching and research needs of all disciplines at CUGB. The primary types of Chinese and foreign resources include periodicals, books, dissertations, conference papers, patents, standards, technological achievements, regulations and management software of literature. At the moment, the university is equipped with more than 40 databases in Chinese and foreign languages, including 1 million electronic journals, 9 million dissertations and 1.5 million e-books. Covered by such databases are foreign language resources that include first-class digital resources in the geoscience, such as SCI, EI, Elsevier, Springer, Nature, Science, AGU and GSW. The level of existing Chinese and foreign language resources at CUGB is comparable with its domestic peers. Meanwhile, mobile library, off-campus VPN and Carsi authentication access were made available, allowing everyone at CUGB to obtain the library resources for teaching and research whenever they need to and wherever they are.





## Social Service

### Domestic Cooperation

In September 2006, the Ministry of Education entered into an agreement with the former Ministry of Land and Resources (restructured now) to jointly build the China University of Geosciences. In September 2010, the Ministry of Education entered into an agreement with the State Oceanic Administration for joint construction of 17 universities, including the China University of Geosciences. In 2011, the university established "Cooperation Consortium of Beijing High Technology Universities" (Beijing Tech) together with 9 universities who shares cooperative ties with CUGB. To better respond to the needs of economic and social development, and to fully reflect the functions of social service as an industry-specific university, CUGB taps into its personnel and research advantages in the field of geosciences, and works with companies and public institutions in the field for research, personnel training, practical application of technological achievements, and exchanges of geo-cultures. Through these efforts, CUGB seeks to meet China's strategic needs, and explore the ways to promote growth and technological innovation of the field.

In 2020, the university pursued active strategic cooperation, strategic research cooperation on natural resources, research cooperation for natural culture, trainings and research cooperation, and cooperation for the popularization of science. During the same period, CUGB further innovated the model of cooperation with local governments and companies, and expanded the scale of cooperation with foreign institutions. The university established the CUGB Zhengzhou Research Institute and affiliated institutes of the CUGB Nature & Culture Research Institute, including Taishan institute, Zhangye institute, Pingshuo institute and Maritime institute. In 2020, CUGB entered into 35 agreements for strategic cooperation with companies (e.g. Sinopec), government departments (e.g. Zhangye Municipal Government), and other institutions (e.g. National Maritime Museum of China) and sister universities (e.g. Jilin University), a record high in terms of both number and coverage.

### One-on-One Assistance

In 2007, CUGB was invited to join the team of one-on-one assistance for Qinghai University. Focusing on training and research of geological studies in Qinghai and Western China, the team helped Qinghai University create the Department of Geological Engineering. Over the years, relying on its field-specific advantages, the university made great strides in one-on-one assistance. Thanks to joint efforts from CUGB and Qinghai University, the Department of Geological Engineering of Qinghai University was built from scratch. Growing from weak to strong, the department has started relying on high standards, and kept sound momentum for growth, achieving leap-forward development. In 2020, CUGB focused on facilitating the development of the Department of Geological Engineering of Qinghai University. As part of the university's efforts, Professor Chunji Xue was sent to the department for assistance. Moreover, young and middle-aged teachers of the Department of Geological Engineering were enrolled by CUGB for field-specific doctoral studies. CUGB also mobilized experts and scholars to offer instruction concerning the site selection and construction of Huangyuan Base for Teaching and Practice. Apart from this, the university has provided all services needed by faculty members of Qinghai University enrolled in CUGB for further studies and organized the relevant conferences for one-on-one assistance.





## Facilities on Campus

### Museum

The museum at CUGB dates back to 1952. At the early stage, the museum mainly included specimens inherited from the Department of Geosciences Peking University, the Department of Geosciences Tsinghua University, the Department of Geological Engineering Tianjin University (or Beiyang University), and the Mining Geology Major Tangshan Institute of Railway. Now, these specimens are over 100 years old. Equipped with a thorough system for exhibition, the museum exhibits, primarily, geological specimens including minerals, rocks, and paleontological fossils. There are now more than 60,000 specimen collections in the museum, of which over 5,000 are open to the public. In addition to domestic specimens, the museum also boasts specimens from over 40 countries around the world.

The museum now has 4 exhibition halls, namely, Geosciences, Dinosaurs, the Life and History of Earth, and Earth Materials. Every year, the museum engages in a large number of teaching activities and social services, including practice & teaching of such courses as Introduction to Geosciences. The museum welcomes droves of visitors each year and has become a major base for the education and popularization of geosciences. Titles and functions of the museum include: "National Base for the Popularization of Science" since 1999, Chair and Secretary-general of "Beijing Museum Alliance of Universities" since 2017, "Base of Land and Resources for the Popularization of Science" since 2017, and Deputy-chair of "Beijing Association for Science Education Museums" since 2020. In 2020, the museum built a new themed exhibition hall and held 3 themed temporary exhibitions.



### CUGB History Museum

Covering more than 600 square meters, the CUGB History Museum is on the 9th floor of Yifu Building. Equipped with a screening room, the museum offers overviews of CUGB during different historical stages since its establishment, including 3 major parts: "Cradle of Geosciences", "Reform with the Times" and "Striving for First-class University". The museum endeavors to provide a showcase of the historical context and cultural background of CUGB's growth, so as to remember and inspire.

### Conference Center

Completed in 2009, the International Conference Center covers 30,400 square meters of building area, comprising the South Wing and the North Wing. Within the center are service facilities that include lecture halls, conference rooms, reception rooms, Chinese and western restaurants, guest rooms (over 300 different types), fitness centers, the showroom of minerals and crystals, etc. Moreover, the center is equipped to cater teams & groups, meetings and business events.

### The Stadium

In May 2011, the stadium with a building area of 17,000 square meters was completed. It consists of indoor swimming pool, indoor basketball field, indoor rock climbing facility, culture & sport center, underground gym, etc. The stadium offers the venue for teaching PE courses, training and performance of the Student Art Troupe, cultural and sport events held by the Worker's Union, large-scale gatherings, and sport events. It is also designated for training high-level sport teams and fitness trainings among students. The stadium has received Outstanding Stadium Award from the Sport Administration of Haidian District, Beijing for 9 consecutive years.



# Alumni Association & CUGB Foundation

## CUGB Alumni Association

CUGB Alumni Association (hereinafter referred to as "Alumni Association") is a joint, non-profit civil organization (having legal person status) voluntarily formed by alumni of the university. The Alumni Association aims to unite CUGB alumni both at home and abroad and bring them closer together with the university and each other. The Alumni Association endeavors to offer service to CUGB alumni, make full use of the collective power, and render joint contribution for the development and growth of CUGB.

In June 2013, upon approval by Beijing Municipal Education Commission and Beijing Municipal Civil Affairs Bureau, the Alumni Association was officially registered and established with the strong support from CUGB alumni, CUGB leaders for Party affairs, and the relevant departments. In January 2020, the university established the Office for Alumni Affairs, responsible for matters concerning the Alumni Association.

Focusing on bringing alumni together and serving the needs of alumni and CUGB, the Alumni Association seeks to build ties, identify demands, publicize accomplishments, create a well-received image, gather momentum and facilitate development. The Alumni Association, relying on its branches across regions, industries, and second-level schools, taps into alumni networks and social resources, and seeks further growth together with CUGB alumni.

The Alumni Center started functioning on November 27, 2020. On the same day, CUGB held a number of related events, including donation ceremony, alumni symposium, and alumni gathering. The "Alumni Center" features 6 functions: showcase of culture, events of alumni gathering, cooperation and exchanges of project, display and sale of creative cultural products, coffee supply, and office affairs. For alumni and CUGB's partner institutions, the center is a place of comfort and convenience for discussion and conferences while enjoying the coffee, and also a platform for exchanges among alumni, CUGB's partners, and universities.



## The CUGB Education Foundation

In June 2012, upon approval by Beijing Municipal Education Commission and Beijing Municipal Civil Affairs Bureau, the CUGB Education Foundation (hereinafter referred to as "Alumni Association") was officially registered and established as a private foundation.

In 2012, the foundation was recognized as a unit entitled to "Pre-tax Deduction for Public Welfare Donations". In 2017, it was approved as a charity organization entitled to Tax Exemption for Non-profit Organizations, and was awarded with "4A-level Social Organization" in the 2020 Evaluation of Social Organizations. In January 2020, CUGB established the Office for Alumni Affairs, responsible for matters concerning the foundation.

Committed to "bringing together social forces and promoting sustainable development of higher education in geosciences", the foundation receives and manages donations from the public. Furthermore, it conducts funding events, and advocates personnel training, research, social services and the inheritance and innovation of cultures. Since its inception, the foundation has adhered to the principle of "regulated, transparent, efficient and safe" donation management, and intensified cooperation and communication with alumni, individuals, companies and social institutions at both home and abroad. Additionally, the foundation also worked for improved public understanding and support of CUGB, broadened the funding channels for perfecting conditions of operation, and played an active role in catalyzing the building of a world-class university in the field of geosciences.

Funds received by the foundation are primarily used in support of the education and research at CUGB and improvements of teaching conditions. Other uses of the funds include: rewards offered to outstanding students and faculty members; assistance to students with financially-challenged backgrounds; funding of technological innovation and competitions among students; funding of basic research, teaching research and academic publications; funding of overseas studies and involvement in international academic cooperation and academic conferences among members of the faculty.

