

VIEWBOOK

China University of Petroleum - Beijing



中国石油大学(北京)
CHINA UNIVERSITY OF PETROLEUM - BEIJING





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Overview



China University of Petroleum-Beijing (CUP), founded in 1953, is a national key university directly affiliated to China's Ministry of Education. Its main campus lies at the southern foothill of Jundu Mountain in Beijing and the Karamay campus is located in Xinjiang Uygur Autonomous Region. With a distinctive characteristic in petroleum, CUP mainly focuses on engineering disciplines while having a coordinated development in multi-disciplines. In 1997, CUP became a member of China's first Project 211 universities and was nominated as one of the universities to construct National Innovative Platform for Advantageous Disciplines in 2006. In 2017, CUP was selected to participate in the "Double First-Class" Initiative, starting a new journey to build itself into a world-class university with Chinese characteristics.

Overview



Chancellor
Prof. Chen Feng



President
Prof. Wu Xiaolin

132ND TIMES HIGHER EDUCATION
(2020)
WORLD UNIVERSITY RANKINGS
ASIA

12TH THE US NEWS
(2021)
BEST GLOBAL SUBJECT RANKINGS
CHEMICAL ENGINEERING

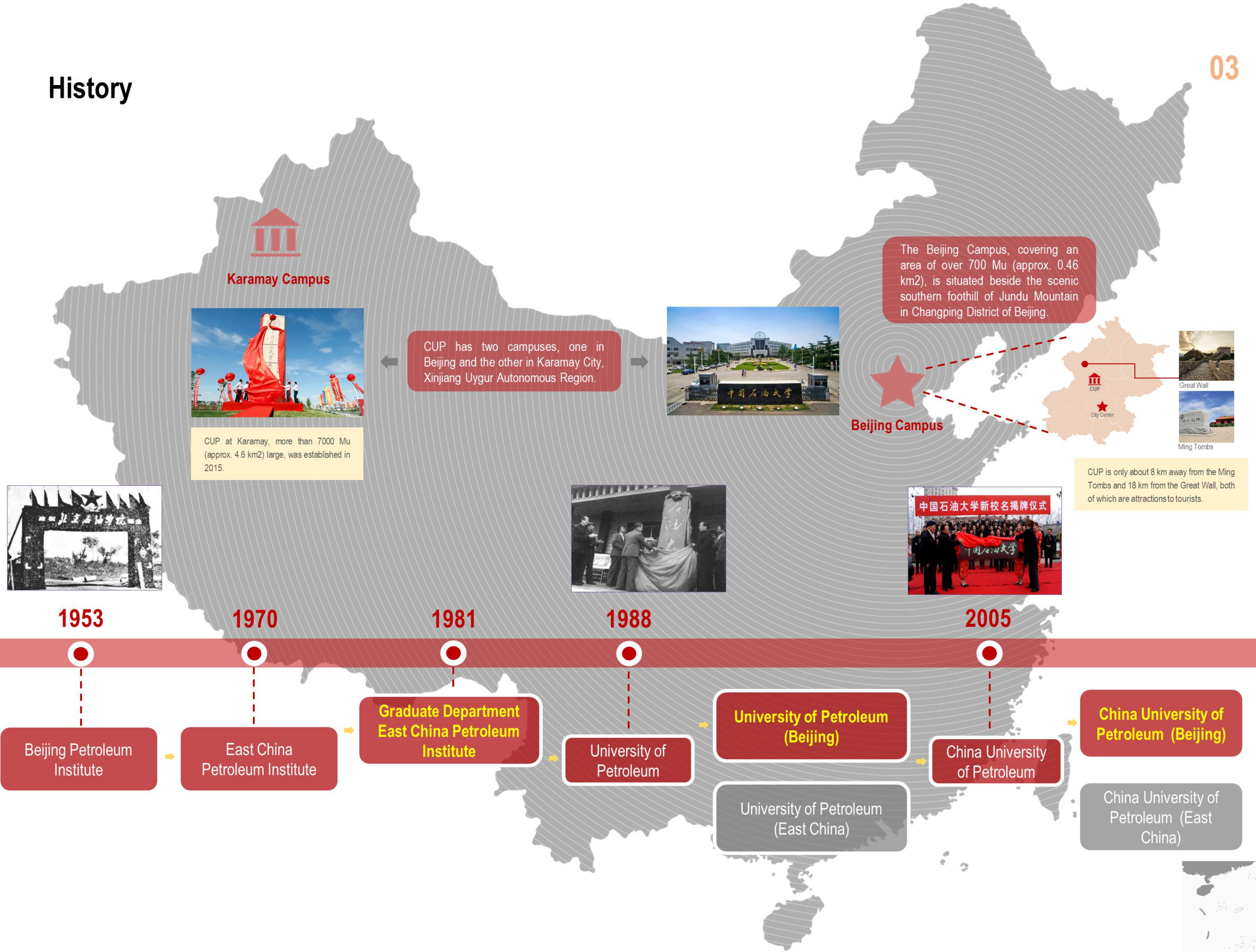
43RD THE US NEWS
(2021)
BEST GLOBAL UNIVERSITIES RANKINGS
MAINLAND OF CHINA

18TH THE US NEWS
(2021)
BEST GLOBAL SUBJECT RANKINGS
ENERGY AND FUELS

- ❑ Founded in **1953**
- ❑ Based in **Beijing** (Capital, Political and Cultural center of China)
- ❑ A national university directly affiliated to **Ministry of Education of China**
- ❑ Petroleum & Petrochemical disciplines in **leading** position in China
- ❑ Known as “**Cradle of Petroleum Talents**” for educating over 200,000 students for Chinese Oil Industry
- ❑ A Project **211** University of China since 1997
- ❑ “**985** National Innovative Platform for Advantageous Disciplines” since 2006
- ❑ Entered the **National “Double World-Class” Initiative** for its Oil & Gas Engineering, Geological Resources & Engineering Disciplines in 2017



History



Karamay Campus



CUP at Karamay, more than 7000 Mu (approx. 4.6 km²) large, was established in 2015.

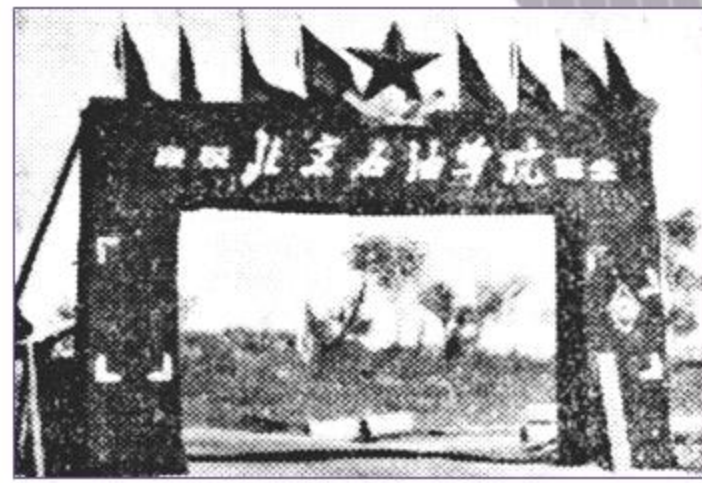
CUP has two campuses, one in Beijing and the other in Karamay City, Xinjiang Uygur Autonomous Region.

The Beijing Campus, covering an area of over 700 Mu (approx. 0.46 km²), is situated beside the scenic southern foothill of Jundu Mountain in Changping District of Beijing.

Beijing Campus



CUP is only about 8 km away from the Ming Tombs and 18 km from the Great Wall, both of which are attractions to tourists.



1953

1970

1981

1988

2005

Beijing Petroleum Institute

East China Petroleum Institute

Graduate Department East China Petroleum Institute

University of Petroleum

University of Petroleum (Beijing)

University of Petroleum (East China)

China University of Petroleum

China University of Petroleum (Beijing)

China University of Petroleum (East China)

- 1 College of Geosciences
- 2 College of Petroleum Engineering
- 3 College of Chemical Engineering and Environment
- 4 College of Mechanical and Transportation Engineering
- 5 College of Geophysics
- 6 College of Safety and Ocean Engineering
- 7 College of New Energy and Materials
- 8 College of Information Science and Engineering
- 9 College of Science
- 10 School of Economics and Management
- 11 School of Marxism
- 12 School of Foreign Languages
- 13 College of Sports Humanities and Arts
- 14 College of Artificial Intelligence
- 15 Unconventional Petroleum Research Institute
- 16 College of International Education
- 17 School of Online and Continuing Education

Colleges and Schools

CUP is in a leading position in the petroleum and petrochemical disciplines in China. According to the ESI statistics by January 2021, CUP ranked within top 1% in ESI in the world for 6 disciplines: Chemistry, Engineering, Material Science, Geosciences, Computer Science and Environment/Ecology, with the Engineering discipline getting into top 1‰ and Environment/Ecology getting into top 1% for the first time in January 2021 in ESI globally. Based on the petroleum industrial structure, CUP has established a discipline structure featuring: preponderant disciplines of Oil & Gas Engineering, Geological Resources and Geological Engineering, supporting disciplines of Chemistry, Material Science and Engineering, and newly emerging interdisciplinary of New Energy, New Material and Artificial Intelligence.

Discipline

National Key Disciplines



National Key Disciplines

1. Oil & Gas Engineering
2. Mineral Investigation and Exploration
3. Well Drilling Engineering
4. Oil & Gas Field Development Engineering
5. Chemical Technology
6. Oil & Gas Pipeline Engineering
7. Geo-Survey and Information Technology
8. Industrial Catalysis



National & International Subject Rankings



Subjects of CUP entered into the Top 10 in China by U.S. News Ranking

- Ranking **8th** for Chemical Engineering
- Ranking **11st** for Energy and Fuels
- Ranking **10th** for Geosciences
- Ranking **20th** for Engineering
- Ranking **24th** for Mechanical Engineering



(by U.S. News Subject Rankings 2021)



Disciplines within World Top 1% by ESI ranking

1. Chemistry
2. Engineering
3. Materials Science
4. Geosciences
5. Computer Science
6. Environment/Ecology

InCites Essential Science Indicators



No. 1 by CWUR Subject Ranking

CUP ranked **1st** in the World for its Petroleum Engineering Discipline according to Center for World University Rankings (CWUR) 2017



Degree Programs



Academic Master's degree programs



Professional Master's degree programs



Doctoral degree programs



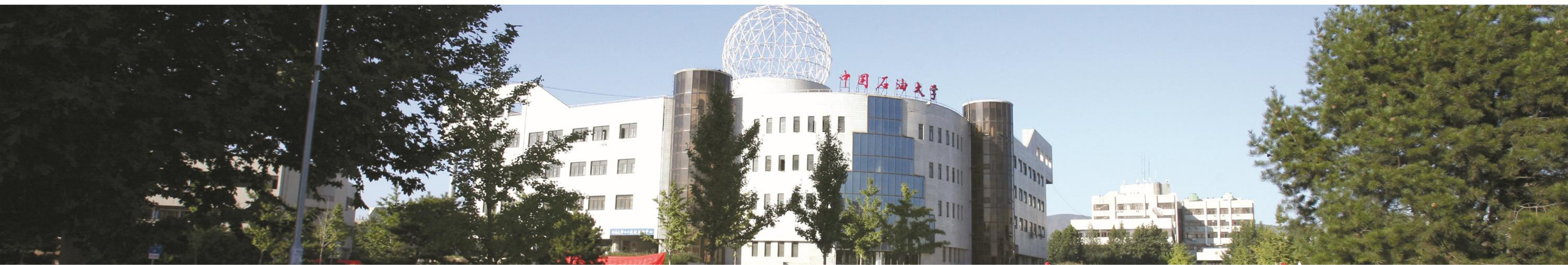
Bachelor's degree programs



English-taught Master's degree programs



English-taught Bachelor's degree programs



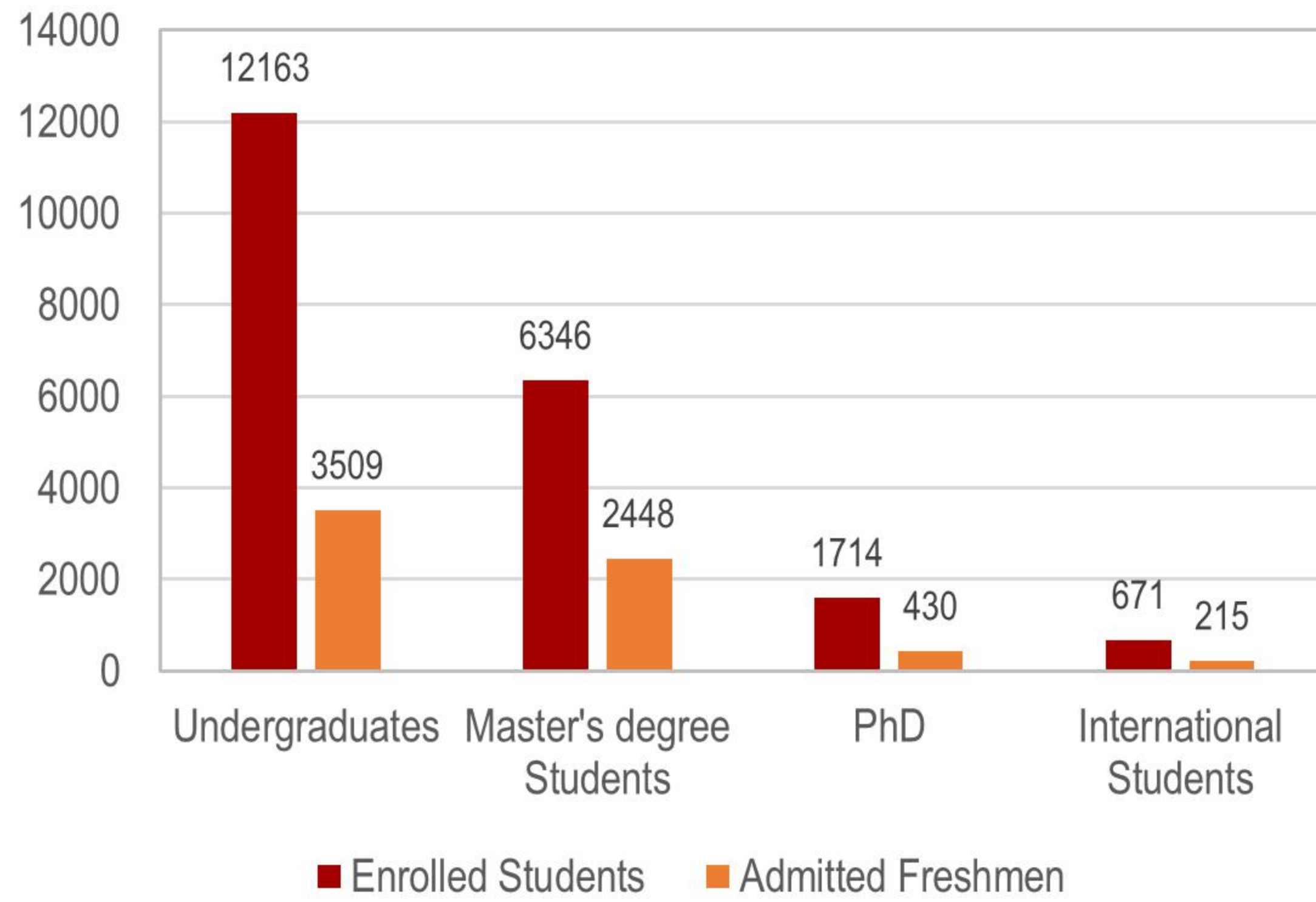
Student & Faculty

CUP is known as the “Cradle of Petroleum Talents” for cultivating over 200,000 excellent professional talents since its founding. There are over 20,000 students studying at CUP, including 12,163 full-time undergraduates, 6,346 master students, 1,714 PhD students and 671 international students. Graduates from CUP enjoy great favour among society and employers, contributing to a high employment rate for years.

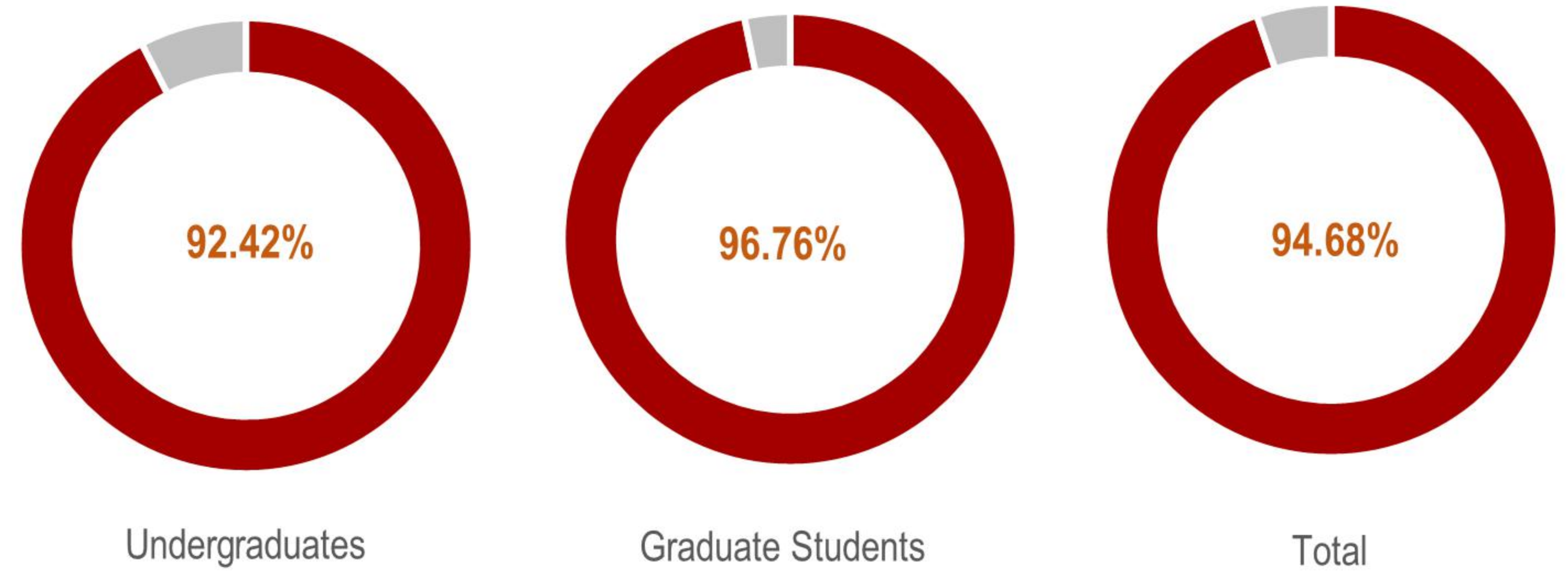
Guided by the principle of “Talents are the Primary Resources”, CUP insists on implementing the development strategy of “Talents Powering the University” and has built a highly competent faculty. Currently, there are 1,706 staff members, including 280 professors and 428 associate professors. There are 3 academicians of the Chinese Academy of Sciences (CAS), 1 academician of the Chinese Academy of Engineering (CAE) among them. CUP owns 94 excellent researchers and professors, 10 innovative research teams and 3 teaching teams that have been conferred honorary titles or funded at the national level and 6 teaching teams at the provincial level. It won 2 second prizes in the 2018 National Teaching Achievement Award (High Education) from the Ministry of Education. CUP makes inclusive talent introduction channels and tailors diverse talent development plans to impel the growth of young teachers.

Student

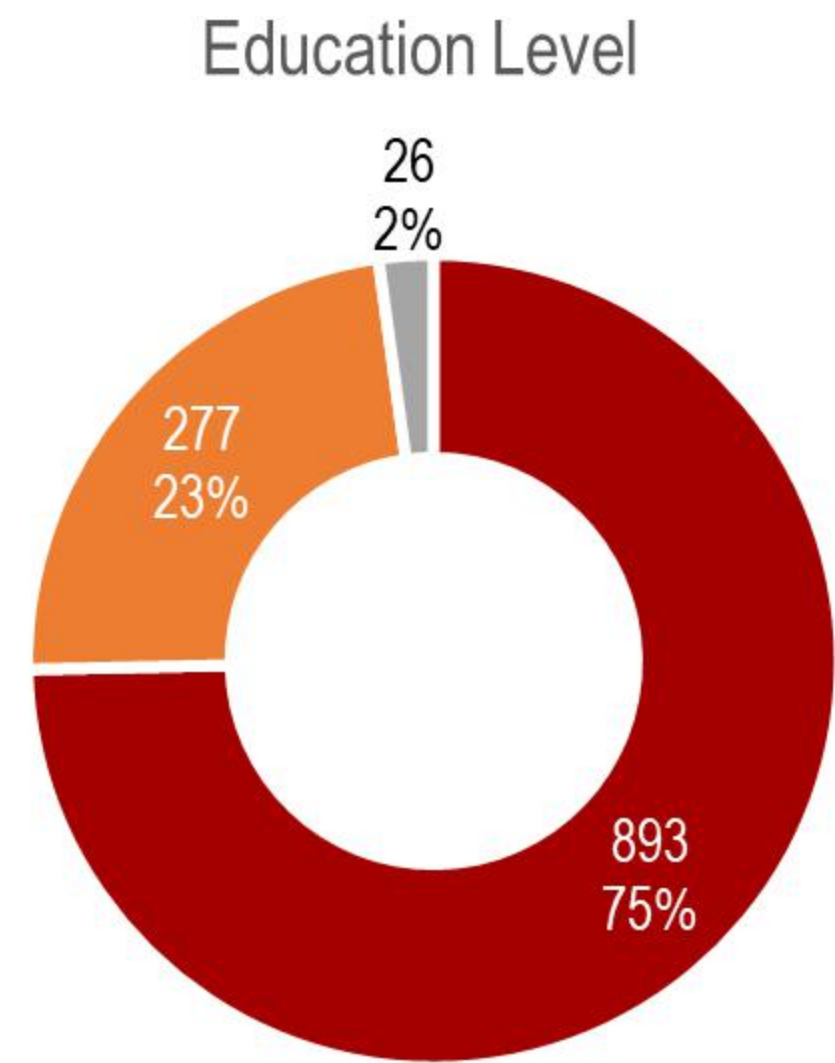
Number of Students (2020)



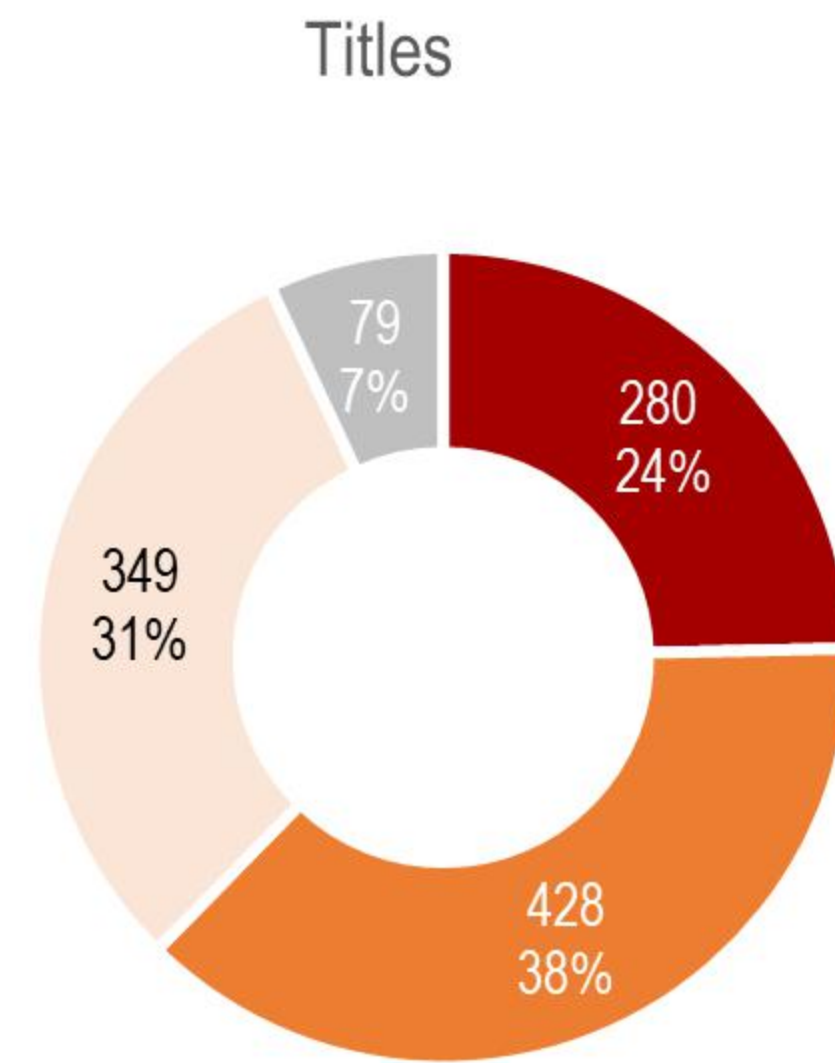
Graduate Employment Rate (2020)



Faculty



- PhD
- Master
- Bachelor



- Professor
- Associate Professor
- Lecturer
- Junior Lecturer



Distinguished Faculty



Wang Tieguan

Academician
Chinese Academy of Sciences



Gao Deli

Academician
Chinese Academy of Sciences



Li Gensheng

Academician
Chinese Academy of Engineering



Xu Chunming

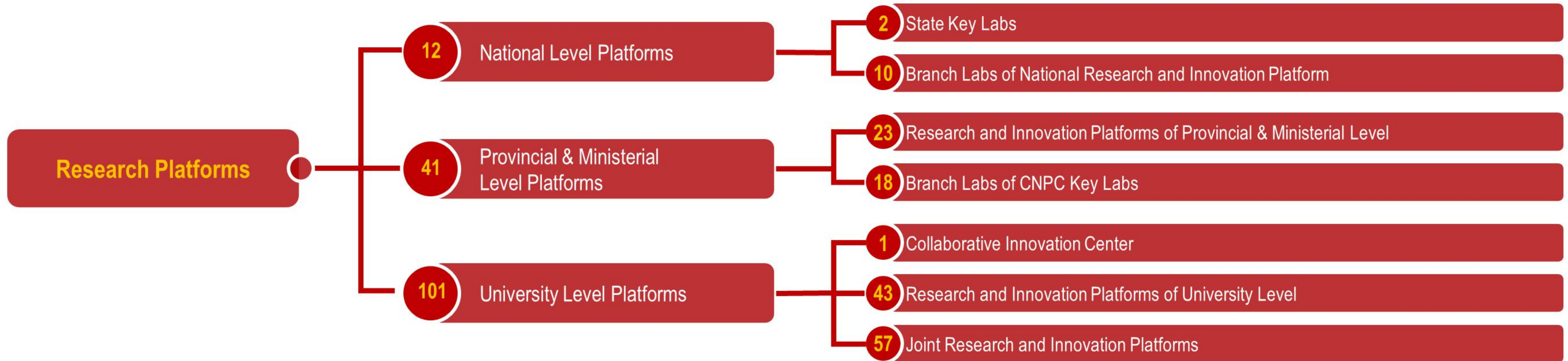
Academician
Chinese Academy of Sciences

Research

CUP values scientific research adhering to the principle of “undertaking major projects, establishing large platforms, organizing strong teams, making important achievements and contributions in research”. It has 2 state key laboratories, 9 national research innovation sub-platforms, 23 research innovation platforms at provincial and ministerial level and 18 key lab branches of China National Petroleum Corporation (CNPC). It has dominated the domestic leading position in several researching areas with an outstanding advantage in the disciplines of petroleum and petrochemistry. It has achieved rapid development in the fields of unconventional oil and gas, new energy and other emerging issues. Since the implementation of China’s 13th Five-Year Plan period (2016-2020), CUP has undertaken 1467 national research projects, winning 13 National Science and Technology Awards with 5 for which CUP is the major participant. It has been awarded 283 prizes of Science and Technology awards at provincial and ministerial level and for the non-governmental sector with 173 for which CUP is the major participant. It ranked 10th in 2014 and 2015 and 7th in 2017 among all the universities in China for the number of national prizes it has won for general projects.

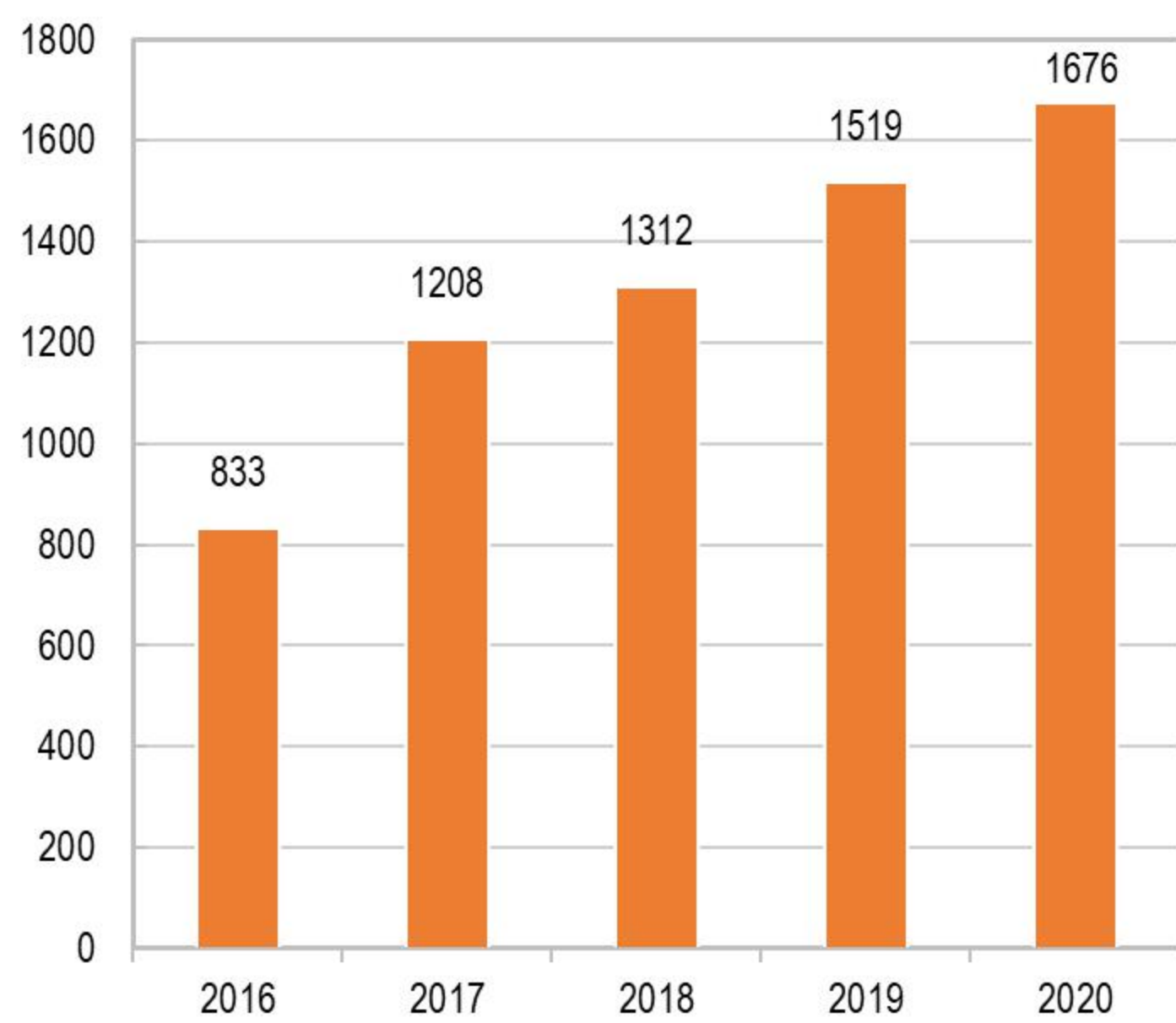
Platforms

CUP is a global intellectual hub in energy studies. The present focus of CUP includes the traditional energy related fields alongside with the new outreach to artificial intelligence, robotics, hydrogen energy, deep-water technology, geothermal energy, natural gas hydrate, carbon capture, utilization and storage, energy storage materials, energy economic management, etc.

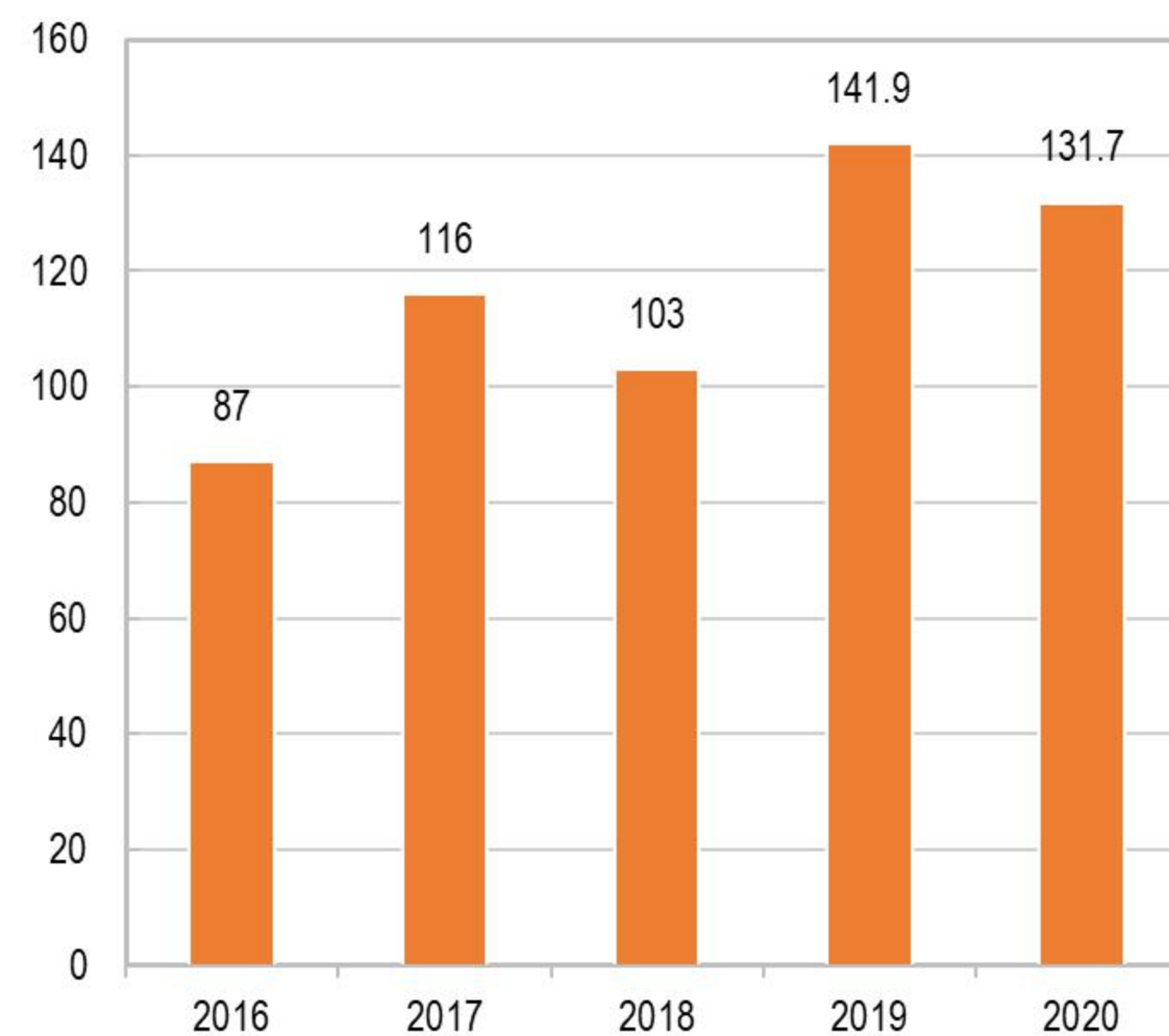


Capacity

Number of Research Projects

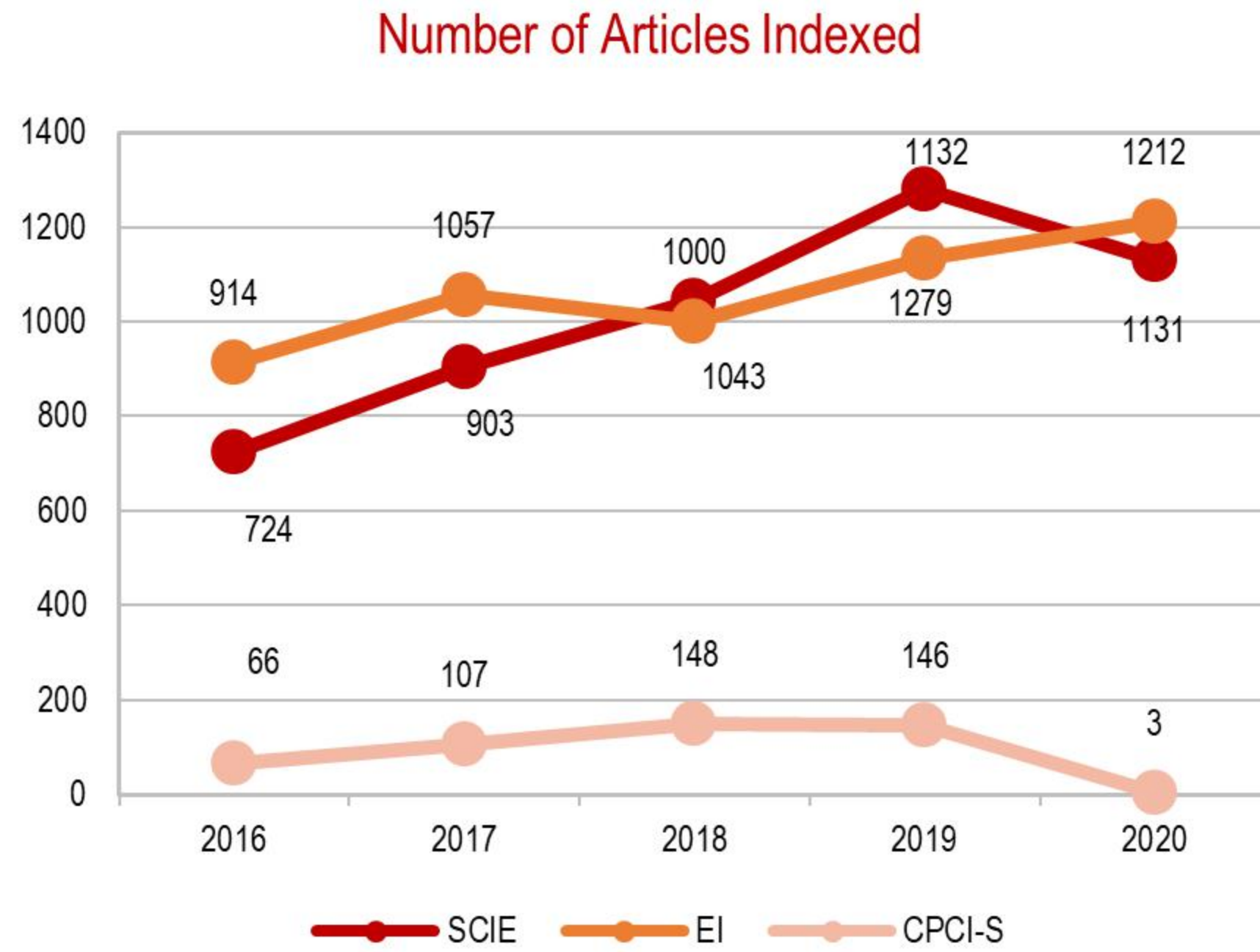


Amount of Research Fund (million USD)



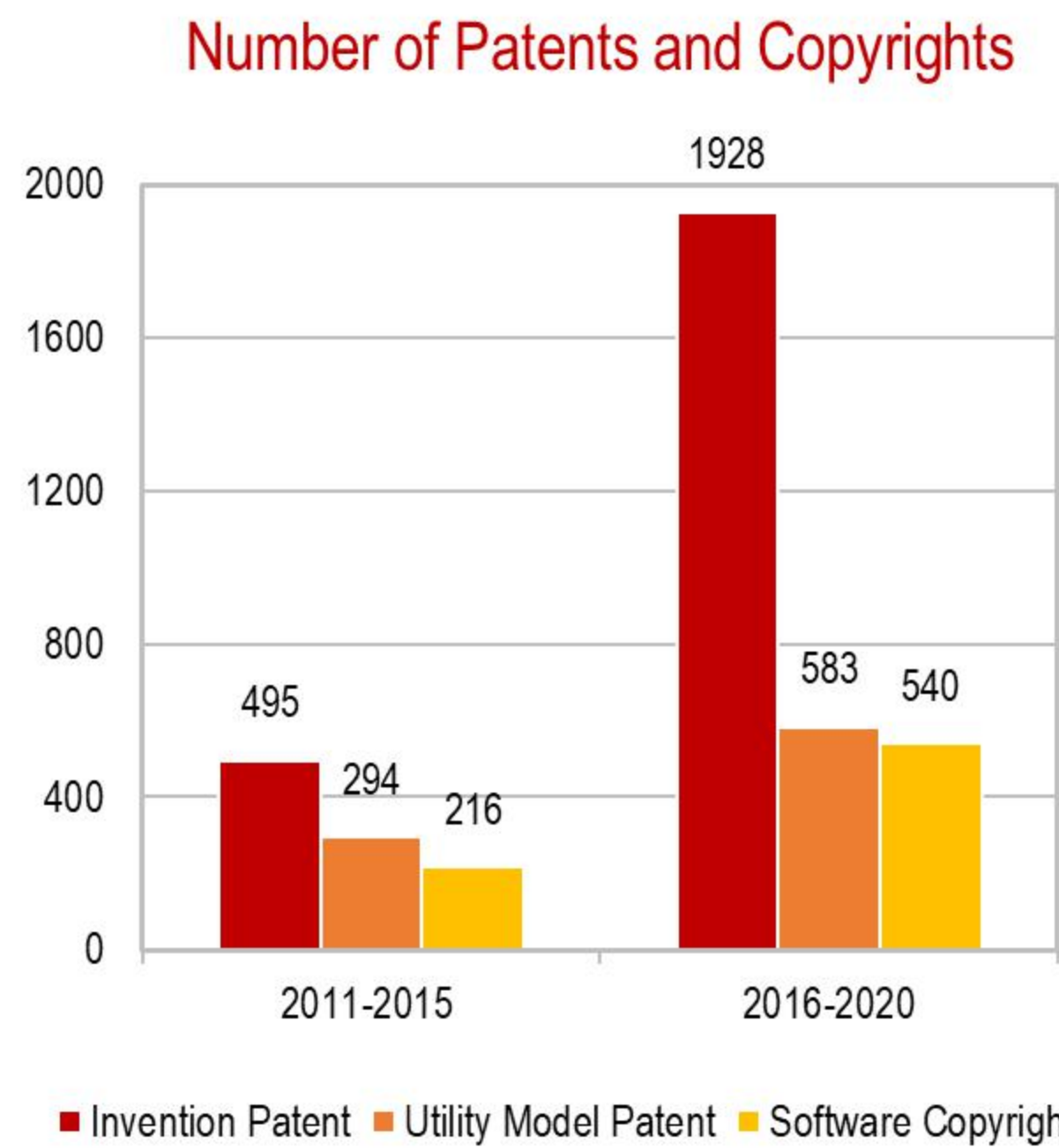
Publications

In 2020, **2346** articles were indexed by SCI (1131), EI(1212) and CPCI-S(3). Since its founding, CUP has a total of **21366** articles indexed by SCI (9044), EI (10962) and CPCI-S (1360).



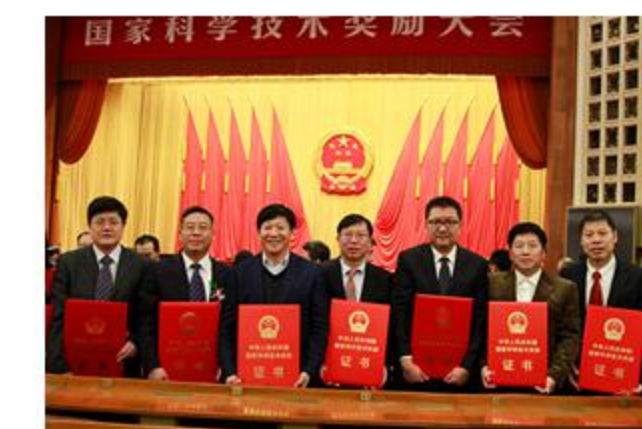
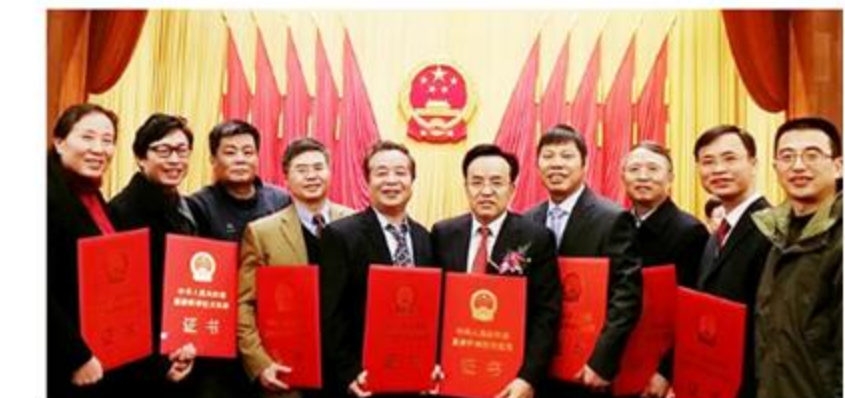
- A Transforming Metal Nanocomposite with Large Elastic Strain, Low Modulus and High Strength, **Science** 339(6124):1191-4 (2013)
- Subduction-driven recycling of continental margin lithosphere, **Nature** 515, pp.253-256 (2014)

Patents and Copyrights



Awards

CUP has won **80** National Science and Technology Awards, **350** S&T awards of provincial and ministerial level and **567** awards from non-governmental sector so far.



▲ 2014 National S&T Award Presenting Ceremony

▲ 2017 National S&T Award Presenting Ceremony

- 1 Tsinghua University
- 2 Zhejiang University
- 3 Beihang University
- 3 Xi'an Jiaotong University
- 5 Central South University
- 5 **China University of Petroleum - Beijing**
- 7 Peking University
- 7 Southeast University
- 7 Huazhong University of Science and Technology
- 7 Sichuan University

CUP won **4** National Technology Invention Awards in 2017-2019 as the first completed unit according to the data released by the National Office for Science & Technology Awards. This achievement ranked **5th** among the universities in Mainland China, and ranked the **1st** among the first-class universities and disciplines of China.

Global Network

CUP insists on the development philosophy of combining government, industry, education and research. The Ministry of Education and China's 5 top petroleum enterprises signed the co-construction agreement on developing CUP in October 2013. Till now, CUP has reached comprehensive cooperation agreements with 144 entities including domestic governments, enterprises and public institutions. It has explored a new talent training model taking advantage of the resources from enterprises and the university: 76 petroleum and petrochemical enterprises have launched scholarships in CUP and 13 have built auditoriums with distinctive features of the enterprises. Also, it jointly enrolls post doctors with 40 enterprise postdoctoral research stations. Moreover, it has established postgraduate workstations and joint training bases with 202 petroleum and petrochemical enterprises, set up student internship bases with 103 enterprises and student social practice bases with 69 petroleum and petrochemical enterprises. CUP actively pursues the innovation of talent training mechanism to combine resources from government, industry and university: It has jointly created Karamay Institute of Engineers with Karamay City and established Beijing Institute of Engineers with the research institutes of China's 3 major oil companies in Beijing, focusing on the implementation of Undergraduate Excellence Program and the training of professional degree graduates, taking new steps in the field of higher engineering education.

CUP attaches great importance to international exchanges and cooperation. Through the strategy of Internationalization, it has been promoting international exchanges and cooperation and increasing its global influence in higher education. It has maintained a large network of academic and industrial relationships with over 196 universities and enterprises abroad. And it has set up 13 international joint research institutes with world-famous universities and enterprises; moreover, it has established a Confucius Institute in cooperation with San Francisco University in Quito, Ecuador. In 2018, CUP initiated Worldwide Energy University Network (WEUN) which has 31 member universities from 17 countries such as China, the USA, the UK, Canada, Germany, France, etc. Responding to the Belt and Road Initiative actively, it has established cooperative links with over 60 universities and institutions from countries along the Belt and Road. It was selected to join the Belt and Road scholarship program of Beijing for international students and the Belt and Road national talent training base program of Beijing in 2017. It was approved to join Chinese Government Scholarship-Silk Road Scholarship Program in the same year and the Chinese Government Scholarship-China-Africa Friendship Program and China-Africa Friendship General Scholar Program in 2019.

● Connection with World Industry

- Over **50** companies provide scholarship, with an total amount of **\$10.3 million**.
- Students do field work in over **40** companies.
- **13** labs are sponsored by companies.
- **65%** of research funds are from industry.

250 Training Programs and almost **4000** Trainees from:



International Relations

CUP has established relationships with over **196** universities & institutions from over 60 countries and regions.

- | | | |
|---|--|---|
| Shell
Research project | BP
Scholarship | ConocoPhillips
Scholarship |
| TOTAL
Summer School
TPA Seminar
Scholarship | Schlumberger
Joint Lab | PETRONAS
Student program |
| Husky Energy
Joint Lab
Scholarship | Kogas
Staff training program | PI – under ADNOC
Student program |
| Halliburton
Joint Lab | Saudi Aramco
Student Program | CNPC International (Turkmenistan)
Student program |



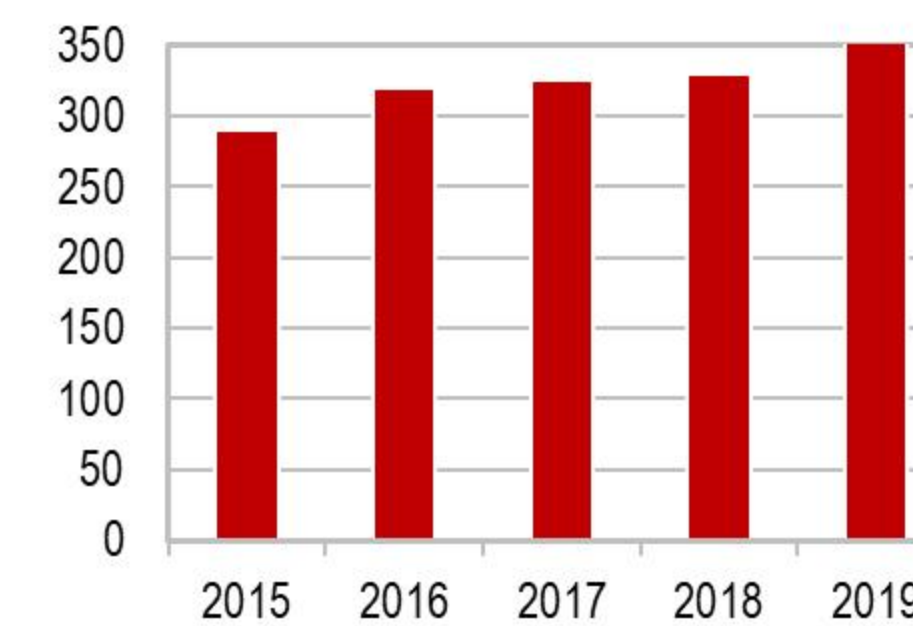
International Student Education

Now there are over **670** international students from **58** different countries studying at CUP.

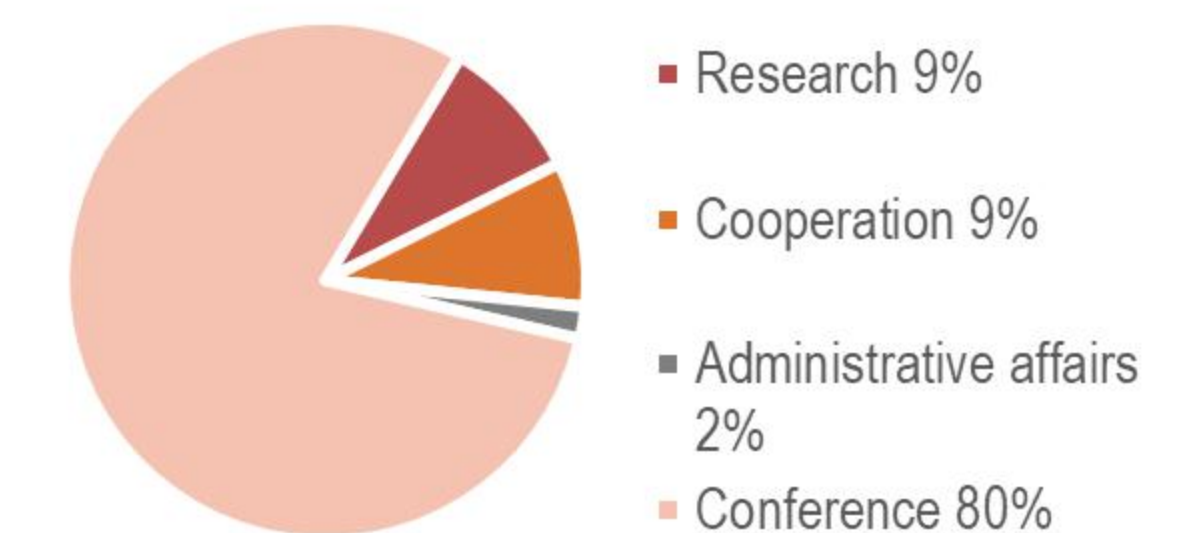


Faculty Mobility

Number of Staff Going Abroad



Purpose of Going Abroad



- Over **300** academic & administrative staff going abroad each year for conference, exchanges and cooperation.

- About **20** academic staff going abroad as a visiting scholar each year, supported by China Scholarship Council.

Some examples of Joint Education Programs (2+2, 3+2, etc.)



USA

University of Tulsa
Arizona State University
Florida State University
University of Alaska Fairbanks
Missouri State University
Missouri University of S&T
University of Missouri-Columbia
Michigan Technological University
Youngstown State University
Marietta College



UK

University of Edinburgh
University of Manchester
University of Dundee
Swansea University



Russia

South Ural State University
Ufa State Oil Technical University



France

Polytech Tours
Polytech Orléans



New Zealand

University of Canterbury



Canada

University of Calgary
University of Waterloo
University of Ottawa
Memorial University of Newfoundland
University of Regina
University Of New Brunswick

English-taught Degree Programs

Master's Degree Programs

- Petroleum Geosciences
M. Eng. Program
- Petroleum Engineering
M.Eng. Program
- Chemical Engineering
M. Eng. Program
- Geophysics
M.Eng. Program
- Energy Finance and Energy System Analysis
M.Ec. /M.Mgt. Program

Bachelor's Degree Programs

- Petroleum Engineering
- Chemical Engineering and Technics
- Resource Exploration Engineering



English-taught Courses

105 Undergraduate Courses 75 Graduate Courses



Summer School and Student Competition

Since 2007, the graduate summer school of CUP has been successfully organized for 13 years. The activities include internationalized curriculums, symposiums, academic exchanges, teaching methods, etc.

Student competitions on campus include: SPE, Petrol Bowl, Petroleum Engineering Design Competition, etc.



Confucius Institute

CUP established a Confucius Institute jointly with San Francisco University at Quito, Ecuador in 2010.



International Training

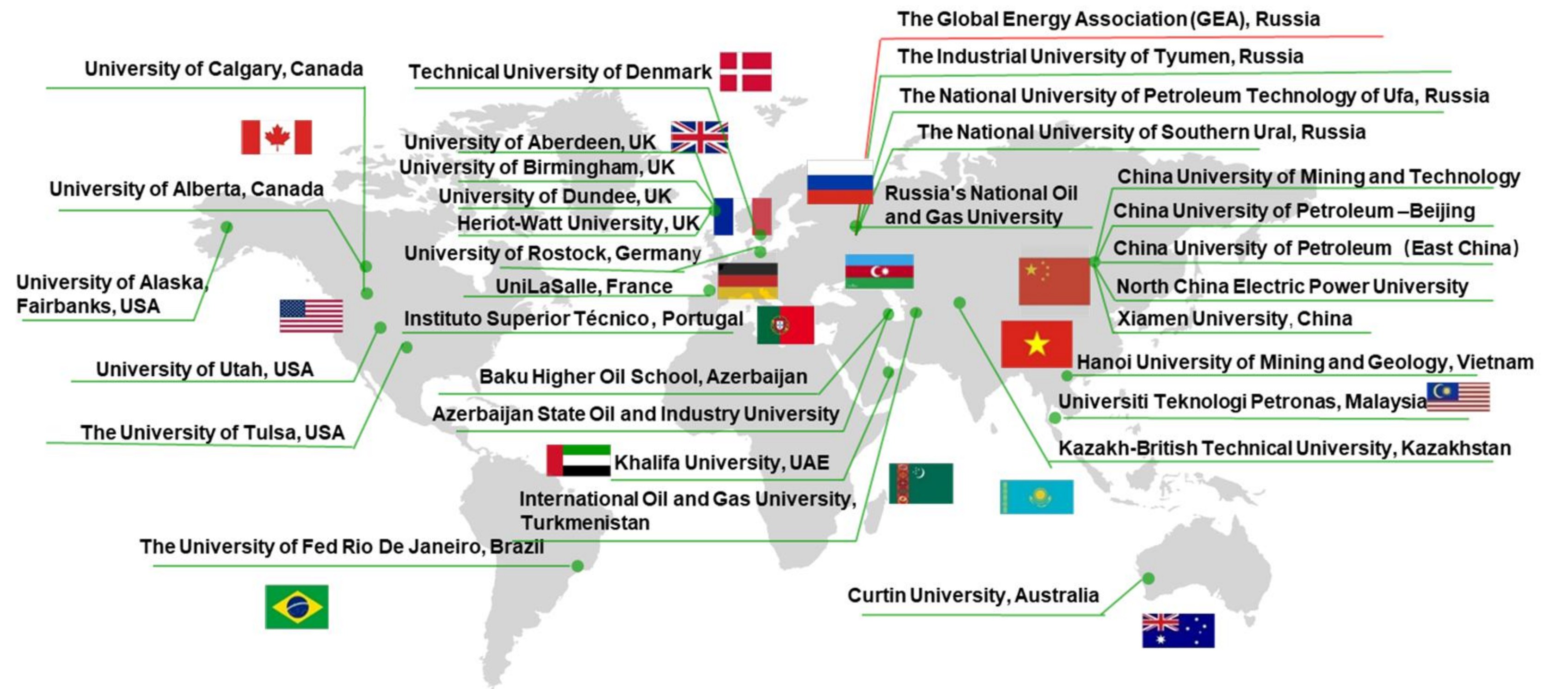
CUP has provided almost 300 training programs to more than 4000 company employees and government officials from nearly 50 countries until 2020. The training subjects are very extensive, including petroleum related technologies, management and Chinese culture, languages, and study-abroad preparatory courses, etc.





Worldwide Energy University Network (WEUN)

Worldwide Energy University Network (hereafter referred to as WEUN) is a non-legally binding voluntary membership organization of research universities, brought together by a shared strategic interest in research, innovation, education and internationalization in the field of energy. WEUN was established at a conference on the 22nd September 2018 in Beijing initiated by its founder China University of Petroleum-Beijing (CUP), through the representatives of the first cohort of 28 founding member universities. In 2020, 3 energy universities from Portugal, Russia and the USA joined WEUN and the number of members increased to 31.





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