Seeking Truth, Pursuing Innovation

ZHEJIANG UNIVERSITY
Overview/2021
1897
Qiushi Academy, the forerunner of Zhejiang University (ZJU), was founded to be a modern academy of higher education in China.

1928
The academy was renamed National Chekiang University. During the war period (1937-1949), it was praised as one of the four most prominent universities in the Republic of China.

1936
Professor Chu Kochen became the president of National Chekiang University and would leave a profound imprint. Addressing new students in 1936, he posed two questions: "First, why do you come here? Second, who do you want to become after graduation?"

1944
British sinologist Dr. Joseph Needham, FRS, hailed the University as "Cambridge of the East". He was impressed by the faculty's dedication to research even during the tribulations of war.

1958
ZJU scientists designed China's first dual inner water-cooled turbo-generator.

1998
The current ZJU was re-established through the merger of four independent universities, which had been split during the institutional restructuring period in the 1950's.

2017
ZJU celebrated its 120th anniversary. In the same year, ZJU broke into world's top 100 universities for the first time (QS 2018) and was also selected for the national "Double First-class Initiative".

LEADING THE WAY SINCE 1897
Welcome to Zhejiang University (ZJU)!

Founded in 1897, ZJU is one of the leading universities in Asia as well as one of the oldest in China. The ethos of seeking truth and pursuing innovation has been embedded in our culture ever since. This commitment results in education that prepares our students to be thoughtful leaders and useful citizens with a global vision and social responsibility, as well as in interdisciplinary and ground-breaking research that addresses challenges the world faces today. Critical thinking and transformative technology empower us to make a positive difference in an increasingly connected world.

As we enter the 21st century, a new round of technological revolutions, as well as unknown threats like COVID-19, are profoundly reshaping the way we live and learn. ZJU is responding swiftly and effectively to the challenges with a mindset of innovation and resilience. As a socially responsible and globally-minded higher education institution, the University aspires to further unleash its unique strengths and contribute to the creation of a sustainable future in terms of education, research and partnership.

I am proud to be part of this vibrant and intellectually challenging community and invite you to join us in the pursuit of truth, knowledge, and a better future for mankind.

WU Zhaohui
President
ZJU AT A GLANCE

3RD IN CHINA
Best Chinese Universities Ranking 2020 (ShanghaiRanking)

35TH IN THE WORLD
QS Graduate Employability Rankings 2020

“DOUBLE FIRST-CLASS”
ZJU was selected for China’s “Double First-class” Initiative in 2017.

C9 LEAGUE
ZJU is a member of C9 League, an alliance of nine leading Chinese universities committed to education and research excellence.

ALUMNI STARTUPS
ZJU is the university with the highest rate of alumni startups in China.

7 CAMPUSES

7 AFFILIATED HOSPITALS

45TH IN THE WORLD
QS World University Rankings 2022
EDUCATION FOR TOMORROW

As one of the most prestigious research and learning institutions in the country, Zhejiang University creates a dynamic educational experience that inspires the academically motivated, intellectually curious, and socially conscious students.

133
undergraduate majors and minors

4,000+
undergraduates participating in research training programs each year

5,500+
international students

88%
of undergraduate students studying abroad
37 colleges, schools and departments under 7 faculties

offer students boundless opportunities to pursue their passions. With an education that highlights innovation, interaction and interdisciplinarity, ZJU prepares students for complex global problems of today and tomorrow.

ARTS & HUMANITIES
- School of Humanities
- School of International Studies
- College of Media and International Culture
- School of Art and Archaeology

SOCIAL SCIENCES
- School of Economics
- Guanghua Law School
- College of Education
- School of Management
- School of Public Affairs
- School of Marxism

SCIENCE
- School of Mathematical Sciences
- Department of Physics
- Department of Chemistry
- School of Earth Sciences
- Department of Psychology and Behavioral Sciences

ENGINEERING
- School of Mechanical Engineering
- School of Materials Science and Engineering
- College of Energy Engineering
- College of Electrical Engineering
- College of Civil Engineering and Architecture
- College of Chemical and Biological Engineering
- Ocean College
- School of Aeronautics and Astronautics
- Department of Polymer Science and Engineering

INFORMATION TECHNOLOGY
- College of Optical Science and Engineering
- College of Information Science and Electronic Engineering
- College of Control Science and Engineering
- College of Computer Science and Technology
- School of Software Technology
- College of Biomedical Engineering and Instrument Science

AGRICULTURE, LIFE & ENVIRONMENT SCIENCES
- College of Life Sciences
- College of Biosystems Engineering and Food Science
- College of Environmental and Resource Sciences
- College of Agriculture and Biotechnology
- College of Animal Sciences

MEDICINE & PHARMACEUTICAL SCIENCES
- School of Medicine
- College of Pharmaceutical Sciences
EDUCATION FOR TOMORROW

Officially opened on May 21st, 2021, Zhejiang University Library of Ancient Books covers a total area of 5,000 square meters and has stored about 180,000 volumes of ancient Chinese books, among which, 20,000 volumes are rare books.

STUDENT-CENTERED LEARNING

At ZJU we encourage independent thinking and offer a student-centered education to stretch and challenge minds. Here we promote the integration of “four learning spaces”:

- diverse classroom experiences to inspire learning and facilitate thinking
- numerous on-campus activities to nurture and bond individuals
- social practices and volunteer work to serve local communities
- outbound exchange programs to broaden perspectives

RESEARCH-ENHANCED EDUCATION

ZJU constructs a four-tiered training system on scientific research, e.g., state, provincial, university and college/school level. Through this system, students are exposed to scientific research and getting access to the frontiers in their disciplines at an early stage. This system emphasizes on the awareness of innovation and scientific literacy, aiming to promote students’ critical thinking and spirit of cooperation.

RICH CAMPUS LIFE

With over 200 student associations and organizations, there’s always something on, from social and career-based events to volunteering and cultural festivals.

Take a look at the latest museum exhibits on campus, attend a lecture, and enjoy a performance at the theatre. Our campuses play host to events, facilities and more that ensure your uni life is as full as you want it to be.

DIVERSE COMMUNITY

ZJU is home to a remarkably diverse community. We honor diverse experiences and perspectives, including differences in culture, nationality, religion, gender, disability and socioeconomic status, and strive to create inclusive learning environments where all are treated with respect.
ZHEJIANG UNIVERSITY MUSEUM OF ART AND ARCHAEOLOGY (ZJUMAA)

ZJUMAA was officially opened in September 2019. Its mission is to support and enhance education and research at ZJU.

Occupying an area of 8.23 acres with a floor area of 25,000 square meters, the complex is divided into two zones: the museum facilities and the academic institute. Its educational activities include exhibitions, publications, lectures, conferences, film screenings and live performances.

Through collection, research, and exhibition of artwork and archaeological artifacts, the Museum seeks to elevate the aesthetic sensitivity and visual literacy of the ZJU community.

Fragment of the West Pavilion Chronicle Stele in Regular Script by Yan Zhenqing, a famous calligraphist in the Tang Dynasty (AD 618 - 907).
ZJU is proud of its leading experts in many fields, including engineering, chemistry, materials science, agricultural science, computer science, plant and animal science, clinical medicine, pharmacology and toxicology. Driven by the big picture, ZJU researchers push the boundaries of knowledge and create discoveries and innovations that change our world for the better.

A 72-year-old paraplegic patient shook hands by controlling a robotic arm via mind control. ZJU’s interdisciplinary team completed China’s first clinical study of the invasive motor brain-machine interfaces in Jan., 2020.

A TRACK RECORD OF SUCCESS

1ST IN CHINA
10 world’s top 1‰ disciplines (ESI May, 2021)

TOP 3 IN CHINA
160 highly cited Chinese researchers (2020)

TOP 30 IN THE WORLD
Nature Index (2021 Tables)

TOP 100 IN THE WORLD
ESI ranking of universities (May, 2021)
INNOVATION 2030

Capitalizing on its broad research portfolio, ZJU announced a university-wide framework in 2018, INNOVATION 2030, to catalyze greater collaboration among discipline clusters and find innovative solutions for big questions of tomorrow.

Convergence research - deep integration of knowledge, approaches and expertise from diverse disciplines is our answer to the compelling global challenges.

30+ DISCIPLINES

To date, 9 projects have been launched. The knowledge, theories, methods, data and scientific communities of 30+ disciplines are coordinated into these projects to open up new vistas in research.
BRAIN RESEARCH AND ARTIFICIAL INTELLIGENCE

- Brain and cognition research
- Development of next generation AI
- Human-machine interface design

QUANTUM INFORMATION SCIENCE

- Quantum control and manipulation
- Quantum sensing
- Quantum imaging

CONSERVATION OF ECOLOGY AND ENVIRONMENT

- Alleviation of environmental impacts
- Restoration of natural ecosystems
- Development of renewable and clean energy
- Environmental big data analytics
- Institutional innovation and cultural communication

HYPERGRAVITY FIELD

- Hypergravity effects on multiphase media
- Hypergravity multiphase evolution of rock and soil masses
- Geo-environmental mechanics
- Hypergravity experiments with geological processes
- Experimental earth sciences
- Hypergravity materials science and engineering

AGRICULTURAL BREEDING BY DESIGN

- Genomic information
- Development of gene editing technology
- Big data-driven targeted breeding
- Innovation in crop resistance to biotic and abiotic stress

China’s first implanted Epilcure™

A wearable electronic sensor for plants

World’s first three-dimensional photonic topological insulator

Integrative approaches to repair the contaminated soil

Centrifugal Hypergravity and Interdisciplinary Experiment Facility in construction
NEW MATTER DISCOVERY AND FABRICATION
• Synergistic innovations of research paradigms
• Advancing the synthesis, characterization and application of new matter
• Development of intelligent manufacturing, synthetic biology, and intelligent medicines

SMART OCEAN
• Ocean informatization
• Ocean environment sensing
• Intelligent ocean equipment

ASIAN CIVILIZATIONS
• Blending and clashing of civilizations
• Inheritance and innovation of cultures
• Contacts and variations of languages
• Circulation and recreation of classical literature
• Preservation and protection of cultural relics
• Interpretations and dialogue of arts and literature

PRECISION MEDICINE
• Multi-omics-based molecular diagnosis and genotype of diseases
• Innovation and translation of precision diagnosis and treatment
• Precision diagnosis and prevention technologies

A self-powered, bio-inspired soft robot for deep-sea exploration

World’s first human cell landscape at the single-cell level

In situ manipulation of the active Au-TiO$_2$ interface with atomic precision

Meeting the Challenges
TECHNOLOGIES FOR A SUSTAINABLE FUTURE

ZJU has never stopped transforming new ideas and discoveries into innovations for society. Through technology transfer and policy counseling, ZJU researchers amplify the real-world impacts beyond academia.

A HUB OF INNOVATION

- Innovation Institutes: 10
- Branch Centers for Technology Transfer: 100
- Technologies transferred (2020): 550+
- IP transfer contracts (2020): ¥208 MILLION

From health care to climate change, from poverty reduction to cultural preservation, ZJU researchers are making a real difference to improve the quality of people’s lives and help shape a sustainable future. They are heroes in the fight against COVID-19, developing treatments for the world’s deadliest viruses. They are clean air generators, developing ultra-low-emissions technologies and facilitating the establishment of the world’s largest clean coal-power generation system. They are innovators in the next generation of lithium metal battery, solving a grand challenge in the batteries field. They are enablers of others, helping to relieve poverty by cultivating the once-obscure mushrooms. They are masters of past and present, creating the world’s first movable 3D grotto replica and enabling future generations to have the same quality access to historical sites that our forefathers enjoyed. Most of all, they are change makers, driving new industries that will bring a prosperous future for all.
BUILDING A GREEN CAMPUS

Sustainability is a core, university-wide commitment at ZJU. The University is investing in greener buildings, greener practices, and promoting public awareness of environmental protection through educational and research activities.

Members of the community work together to advance green initiatives, which include comprehensive energy conservation practices, recycling programs, food recovery in our dining halls, many student-led green activities etc. On our campus and beyond, ZJU is helping to make a difference.

The Haining International Campus is the first university campus to be awarded the LEED O+M V4.1 Platinum Certification in China.
ENGAGING WITH THE WORLD

ZJU is one of China’s most international universities. Working closely with our partners in six continents, we are committed to promoting student and faculty mobility, developing substantial research cooperation and leading innovative changes.

- 200+ global partners worldwide
- 140+ alumni chapters in and outside China
- 40+ joint research centers with global partners
GLOBAL STRATEGY

As the world is trending towards increasing interdependence and diminishing borders, we envision that ZJU will be a more visible, attractive and engaged contributor in the global higher education arena.

In July 2018, the University released its global strategy “Global ZJU: CREATE to Impact”, which serves as the overarching framework for ZJU’s global endeavors. In May 2019, the University was awarded “International Strategy of the Year” at the Times Higher Education Asia Universities Summit.

A GLOBAL ZJU FOR SOCIAL GOOD (Z4G)

As a socially responsible and globally-minded higher education institution, ZJU aspires to make a distinctive and positive impact by strengthening its commitment to the Sustainable Development Goals (SDGs).

HAINING INTERNATIONAL CAMPUS

Located in the city of Haining and 80 km from the main campus, ZJU’s International Campus was officially inaugurated in October 2017. The campus adopts a “1+X” approach, where ZJU partners with multiple world-renowned universities to develop new models of transnational education.

As a strategic initiative of the University, the campus seeks to combine the best education practices of East and West to cultivate future leaders with a global vision.

ZJU-UIUC Institute (ZJUI)
ZJU-UoE Institute (ZJE)

1 BUSINESS SCHOOL
Zhejiang University International Business School (ZIBS)

7 UNDERGRADUATE PROGRAMS

14 MASTER’S DEGREE PROGRAMS

23 PHD PROGRAMS

QUICK FACTS

Learn more about the International Campus:
https://www.intl.zju.edu.cn/
With robust market vitality and strong regional interconnection, the Yangtze River Delta region offers the world a glimpse of the resilience and potential of the Chinese economy. Covering the three provinces of Anhui, Jiangsu and Zhejiang as well as the city of Shanghai, the Yangtze River Delta region is one of the regions with the fastest economic growth, the highest level of openness, and the strongest innovation capabilities in China.

With a population of 227 million people, the region accounts for about a quarter of China’s total economic output, one third of China’s annual research and development (R&D) expenditure and one third of the number of invention patents in force in China. It boasts about a quarter of China’s “Double First-class” Universities.

In order to promote the integrated development of higher education in the Yangtze River Delta, in May 2019, ZJU proposed and co-initiated the Alliance of Research Universities in Yangtze River Delta with Fudan University, Nanjing University, Shanghai Jiao Tong University and University of Science and Technology of China.