ZJU-UIUC INSTITUTE

Zhejiang University-University of Illinois Urbana-Champaign Institute

浙江大学伊利诺伊大学
厄巴纳香槟校区联合学院

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浙江大学 ZHEJIANG UNIVERSITY

ILLINOIS

ZJUI BROCHURE

浙江大学伊利诺伊大学厄巴纳香槟校区联合学院

Zhejiang University-University of Illinois Urbana-Champaign Institute

WE ARE ZJUI

Content

ZJUI 1. Deans' Messages

Based in China and looking at the world. Today we are in the era of globalization, facing common global issues. The development of disciplines has shown a flourishing trend featuring multidisciplinary knowledge convergence and deep integration. We must consider what knowledge to teach students, what education to provide them with, and what abilities to cultivate in them. Zhejiang University-University of Illinois Urbana-Champaign Institute (ZJUI) was established under this background by the strong cooperation of the two prestigious universities in China and the United States. It carries out Sino-foreign cooperative education, breaks down boundaries between traditional engineering disciplines, and aims to establish an innovative and international higher education model in the context of globalization and cultivate innovative engineering elites and international leaders.

The sea encompasses hundreds of rivers and people under the heaven are of one family. ZJUI was approved by the Ministry of Education of China in February 2016 with the vision of “Educating innovators in engineering and leaders of tomorrow”. It has gathered an internationally top-tier faculty team and gradually an engineering education and research system featuring interdisciplinary convergence has been established in ZJUI. With the deepening of cooperation between ZJU and UIUC, the integration of Eastern and Western cultures will burst out even greater sparks, and the results of cooperation will benefit more faculty and students. We will strive to construct world-class university and excellent disciplines by providing an excellent cross-innovation engineering education platform, and a world-class engineering education to realize “Internationalization at Home”. We will strive to accelerating the research cooperation and technology transfer to serve regional development and create a typical model for promoting regional development by international cooperation education and strive to continue to lead among Sino-foreign cooperative institutions!

Prof. Lee Der-Horng
Dean of ZJUI

Prof. Jin Jian-Ming
Executive Dean of ZJUI

ZJUI 2.Who We Are?

Introduction

« 2016

Approved by the Ministry of Education, China in 2016

« 30

International faculty and students from more than 30 countries

« ZJU X UIUC

An engineering college cooperatively-run by the Zhejiang University and the University of Illinois Urbana-Champaign

1100+ »

More than 1100 undergraduate, postgraduate and doctoral degree students

4 »

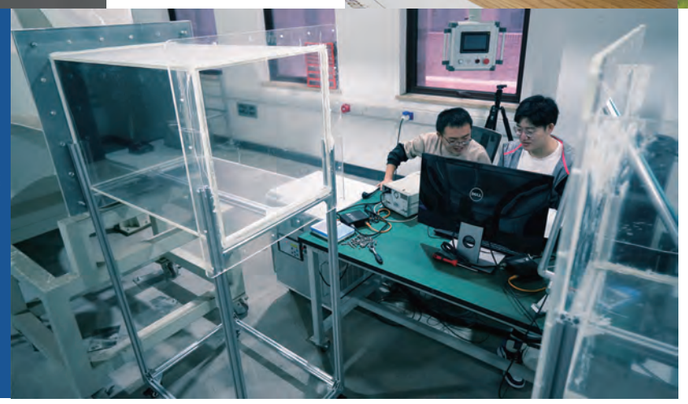
4 undergraduate degree programs and 4 master degree programs

« 92%

More than 92% of the graduates continue to study in internationally renowned universities

3 »

a. Advanced materials and devices engineering sciences
b. Information system and data sciences
c. Energy, environment, and sustainable development sciences



83% »

83% 22' undergraduates received offers from Top 20 universities in the world

Vision& Mission

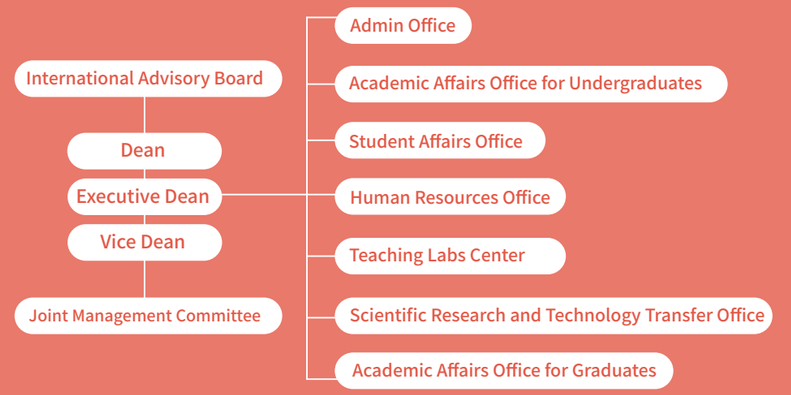
Vision

Committed in nurturing future pioneers and leaders of engineering and innovation.

Mission

- To create an exemplary model of international collaboration for globalized, cross-disciplinary, and innovative engineering education and research.
- To build a diverse group of uniquely talented students and faculty, proactively participating in cross-disciplinary research and education.
- To discover the best engineering innovations to address the world great challenges, to contribute to the society, the nation, and the mankind.

Structure



In addition, ZJUI also has Academic Committee, Undergraduate Affairs Committee, Undergraduate Affairs Committee, Human Resources Committee, Faculty Development Committee, Faculty Search Committee etc. to support the development of the institute.

Leadership

Prof. Lee Der-Hong — Dean of ZJUI

Lee Der-Horng is an academician of the Singapore Academy of Engineering and a supported expert of the Zhejiang Province Kunpeng Action Program. He is a Qiushi Chair Professor at Zhejiang University, and the Dean of the Zhejiang University-University of Illinois Urbana-Champaign Institute. He holds a Ph.D. from the University of Illinois. He is also an Executive Committee member of the Singapore Academy of Engineering, as well as the Leader of the Transportation Engineering Group. Before joining Zhejiang University in 2021, he was a tenured professor in the Department of Civil and Environmental Engineering at the National University of Singapore, and an elected member of the NUS Senate. In 2002, he was named one of the “Innovators Under 35” by MIT Technology Review and has been listed among “World’ s Top 2% Scientists” published by Stanford University. He has also been named as “Most Cited Chinese Researcher” by Elsevier. According to the Google Scholar database, Professor Lee ranks first in the field of maritime transportation, and third in the fields of port logistics, public transportation, and urban travel, and fifth in the field of transportation policy. Professor Lee’ s research focuses on smart port and shipping logistics systems, maritime transportation systems, urban mobility systems, urban rail transit systems, transportation planning and policy, etc. He has made prime academic contributions in the fields of large-scale container port logistics operations, intelligent urban rail transit, ultra-flex autonomous mobility system, and high-fidelity traffic simulation. As a foreign academician working full-time in China, Professor Lee was received by President Xi Jinping in Beijing in October 2019.

Research Areas: Port Logistics, Maritime Transportation, Urban Mobility, Public Transportation, Transportation Policy

Prof. Ma Hao — Vice Dean of ZJUI

Prof. Ma, Hao received the B.S., M.S. and Ph.D. degrees from Zhejiang University, Hangzhou, China, in 1991, 1994 and 1997 respectively, all in Electrical Engineering. Since 1997, he worked as a lecturer, associate professor and professor at Zhejiang University. Currently, Prof. Ma is a professor and is served as Vice Dean of ZJU-UIUC Institute, Zhejiang University.Dr. Ma is served as Vice President of China Power Supply Society, Vice President and Secretary-general of Power Supply Society of Zhejiang Province, Associate Editor of Journal of Power Electronics (JPE), Associate Editor of IEEE Journal of Emerging and Selected Topics in Power Electronics.Dr. Ma was served as Vice Dean of college of electrical engineering, Zhejiang University (2013-2017), AdCom member of IEEE Industrial Electronics Society (2014-2015), Technical Program Chair of IEEE PEAS 2021, IEEE PEAC 2018, IEEE PEAC 2014 and IEEE ISIE 2012, and was served as Co-chair of Power Electronics and Renewable Energy Track, IEEE IECON 2010, Co-chair of Power Electronics and Energy Conversion, IEEE IECON 2013, Special Session Co-chair of IEEE IECON 2017, Co-chair of Power Systems and Smart Grids, IEEE IECON 2018 and IEEE IECON 2019.His research interests include Advanced Control in Power Electronics, Wireless Power Transfer, Fault Diagnosis of Power Electronic Circuits and Systems, and Application of Power Electronics.

Prof. Jin Jian-Ming — Executive Dean of ZJUI

Jin Jian-Ming received his Ph.D. degree in electrical engineering from the University of Michigan, Ann Arbor, in 1989. He joined the University of Illinois at Urbana-Champaign in 1993 and is currently the Y. T. Lo Chair Professor with the Department of Electrical and Computer Engineering and the Director with the Electromagnetics Laboratory and Center for Computational Electromagnetics. He has authored and coauthored more than 280 papers in refereed journals and 22 book chapters. He has also authored The Finite Element Method in Electromagnetics (Wiley, 1st ed. 1993, 2nd ed. 2002, and 3rd ed. 2014), Electromagnetic Analysis and Design in Magnetic Resonance Imaging (CRC, 1998), Theory and Computation of Electromagnetic Fields (Wiley, 1st ed. 2010 and 2nd ed. 2015), and coauthored Computation of Special Functions (Wiley, 1996), Fast and Efficient Algorithms in Computational Electromagnetics (Artech, 2001), and Finite Element Analysis of Antennas and Arrays (Wiley, 2008). His current research interests include computational electromagnetics, multiphysics modeling, scattering and antenna analysis, electromagnetic compatibility, high-frequency circuit modeling and analysis, bioelectromagnetics, and magnetic resonance imaging. He was elected by the ISI as one of the world’ s most cited authors in 2002, and is also a Fellow of IEEE, the Optical Society of America (OSA), Electromagnetics Academy, and Applied Computational Electromagnetics Society (ACES).

Prof. Wang Hongwei — Vice Dean of ZJUI

Prof. Wang Hongwei is a tenured professor at ZJUI where he services as the Vice Dean and the Director of the Data and Information Sciences Research Program. He is the Vice President of the Information Technology Branch of the Zhejiang Association of Scholars from Overseas. Prof. Wang serves as the Associate Editor of the IET Collaborative Intelligent Manufacturing Journal and an Editorial Board Member of Journal of Service Oriented Computing and Applications. He has been invited to deliver keynote speeches twice in international conferences, and has won four best paper awards. Prior to joining Zhejiang University, he held a permanent academic position at the University of Portsmouth, UK. Prof. Wang got his bachelor’ s degree from Zhejiang University, China, his master degree from Tsinghua University, China, and his Ph.D. degree from the University of Cambridge, UK, respectively.Prof. Wang has a broad interest in the application of AI and Knowledge-Based Systems (KBS) in the design, analysis, manufacture and maintenance of complex systems. He has been focusing on industrial knowledge graph, knowledge-based reasoning and decision making, fault diagnosis, and multimodal learning in the past few years. He has received continuous research grants from EPSRC, NSFC, Key Project of the S&TMinistry, Zhejiang Natural Science Foundation, etc. His research outcomes have underpinned the development of industrial software systems in different areas, which have led to the winning of several important awards and honors such as the Wuwenjun AI award. He has published over 140 papers in well-established journals and conferences such as IEEE Trans. on Services Computing, IEEE Trans. on Neural Networks and Learning Systems, IEEE Trans. on Industrial Informatics, IEEE Trans. on SMC: Systems、Energy, Neurocomputing, Energy, Robotics and Computer-Integrated Manufacturing.

ZJUI 3.We Regard Exploration as Our Gene

Milestones

2013.9
START

ZJU and UIUC sign a strategic cooperation agreement

2016.2
APPROVAL

Ministry of Education approves ZJU-UIUC Institute

2016.9
1st COHORT

ZJUI welcome the first cohort students of Electrical Engineering and Computer Engineering

2017.9
4 Programs

ZJUI welcome the first cohort students of Mechanical Engineering and Civil and Environmental Engineering, along with the first International Student

2019.3
Deepen Cooperation

ZJU and UIUC sign a MoU on Joint Research Center and the agreement on collaborative PhD training

2020.6
Alumni

The first cohort of undergraduates graduated and handed over their shining placement outcomes.

ZJUI welcome the first cohort Master students of Electronic Information, Energy & Power, Civil & Hydraulic Engineering

2022.9
Cross-disciplinary Program

ZJUI welcome the first cohort of cross-disciplinary master program of Artificial Intelligence and Digital Health

Partners

浙江大学

Zhejiang University (ZJU) is one of China’ s top higher education institutions, as well as one of its oldest; its roots can be traced back to 1897 and the founding of the Qiushi Academy.Located in Hangzhou – one of China’ s most picturesque cities – the University is organized across seven faculties and 39 schools. It is home to more than 4500 full-time faculty members, including 30 members of the Chinese Academy of Sciences and 31 members of the Chinese Academy of Engineering. ZJU has more than 29,000 undergraduates, 43,000 graduates. as of 2022. In the latest list released by the state in February 2022, 21 disciplines of ZJU have been selected for China’ s “Double First-class” Initiative. Laying claim to several areas of research strength, ZJU currently ranks among the top three universities on the Chinese mainland and within the top 100 in the Times Higher Education World Reputation Rankings and QS World University Rankings.

UIUC

Since its founding in 1867, the University of Illinois Urbana-Champaign has earned a reputation as a world-class leader in research, teaching, and public engagement. It’ s a founding member of the Big Ten Conference and a member of the Association of American Universities, and it is also listed as a "Public Ivy". With its land-grant heritage as a foundation, UIUC pioneers innovative research that tackles global problems and expands the human experience. Its transformative learning experiences, in and out of the classroom, are designed to produce alumni who desire to make a significant, societal impact. UIUC currently has more than 33,000 undergraduates, 15000 graduates, and 2700 faculty members, and there have been 24 Nobel Laureates and 27 Pulitzer Prize Winners from UIUC faculty and alumni. It is a global leader for engineering education and research, and its engineering programs ranked 7th in the U.S. Best Universities Rankings published by US News & World Report in 2023.

ZJUI 4.We Provide Excellent Engineering Programs

Undergraduate Programs

Program Overview

The ZJU-UIUC Institute offers four undergraduate programs, including mechanical engineering, electrical engineering, computer engineering, and civil and environmental engineering.

The engineering curricula follow both those of UIUC and of ZJU. Strong emphasis on teamwork, creative problem solving, and laboratory instruction are examples of this state-of-the-art engineering education program. Students who complete the programs are fully prepared for engineering careers or for advanced graduate education.

01 Electrical Engineering

Program Overview

The electrical engineering program offered by our institute is an interdisciplinary program that encompasses areas such as electrical engineering, information communication, data processing, system control, micro-nano manufacturing, and electromagnetic remote sensing. The curriculum covers the theoretical foundations and key technologies for modern energy, communication, sensing, computation, healthcare, security, and national defense. Students in this program are oriented towards solving practical engineering problems. They acquire a broad knowledge base in relevant disciplines, emphasize hands-on experience and engineering practice, and develop exceptional interdisciplinary research abilities along with a strong sense of humanistic literacy, a global perspective, and a deep-rooted patriotism. They are poised to become highly skilled innovative talents and leaders with global competitiveness in the relevant engineering fields.

Career Prospects

Graduates will pursue careers in various domains, including:

- Power systems and new energy
- Power electronics and power transmission
- Robotics and control systems
- Nanotechnology and quantum devices
- Communication and wireless networks
- Electromagnetics, optics, and remote sensing
- Signal, image, and speech processing
- Semiconductor materials and integrated circuits
- Laser technology, biomedical sensing and detection, acoustics
- Networking and information security, among others

Distinctive Features

Compared to traditional electrical engineering programs, this program offers a broader range of specializations and provides extensive research opportunities in line with the current trends of digitization and intelligentization in the electrical field.

Representative Courses

Analog signal processing, Electromagnetic fields and waves, Semiconductor electronics, Data structures, Digital signal processing, Power circuits and electromechanics, Electronic circuits, Control systems, Robot dynamics and control, Principles of communication, Power electronics, Power system analysis, Analog integrated circuit design, Digital integrated circuit design, Nanotechnology, Compound semiconductors and devices etc.

02 Computer Engineering

Program Overview

Computer engineering develops student understanding of a computer system from top to bottom – from application software to operating systems to hardware and circuits. It prepares students to create the wide array of computing systems and devices that we all use and depend upon every day.

Career Prospects

Graduates will work in all segments of the broad and thriving computer industry, including:

- software engineering
- programming
- computer system architecture
- microprocessor/hardware design
- realtime and embedded systemse
- operating systemse
- human machine interfacese
- artificial intelligencee
- image and speech processinge
- cloud computing and large-scale data

Distinctive Features

A broad and solid foundation in mathematics, and computing skills

A large degree of flexibility in the curriculum that enables students to pursue topics of interest among the many sub-disciplines in computing

Representative Courses

Introduction to Computing, Computer Systems & Programming, Computer Systems Engineering, Digital Signal Processing, Digital Systems Laboratory, Applied Parallel Programming, Computer Organization and Design, Computer Security, Distributed Systems, Computer Networks etc.

03 Civil Engineering

Program Overview

Our Civil Engineering program is highly interdisciplinary, encompassing areas such as structural engineering, smart transportation, water resources management, and construction management. It serves to cultivate next generation of civil engineers equipped with core knowledge in sustainable development. The curriculum covers the theoretical foundations and key skills for structural design, transportation optimization, and water recourse planning, and construction management, which are all crucial areas for the nation' s economic development and prosperity.Civil engineering students are oriented towards discovering engineering problems, and resolving them by applying the fundamental knowledge learned in class. Their abilities for high-quality writing and speaking are specially emphasized and trained. They are expected to be graduated with exceptional interdisciplinary research abilities, a strong sense of humanistic literacy, a global perspective, and a deep-rooted patriotism For future, they are poised to become highly skilled innovative talents and leaders with global competitiveness in the civil engineering fields.

Career Prospects

Graduates will pursue careers in various types of paths, including:

- Construction and project management
- Bridge design, construction and maintenance
- Water treatment
- Hydrology management
- Transportation and logistics
- Transportation infrastructure design and construction
- Smart cities and intelligent infrastructure
- Disaster prevention and mitigation and many other emerging areas

Distinctive Features

This program emphasizes fundamental knowledge, interdisciplinary research and lifelong learning. It offers a broader range of specializations, including structural engineering, transportation engineering, and water resource engineering and science, and thus more diverse and employment channels. It keeps up with the current wave of digital, intelligent and low-carbon development in the civil engineering field.

Representative Courses

Project-based Introduction to Civil Engineering, Systems Engineering and Economics, Engineering Risk and Uncertainty, Engineering Graphics & Design, SolidMechanics, Fluid Mechanics, Structural Analysis,Behaviors of Materials, Transportation Engineering, PublicTransportation Systems, Environment and Sustainable Development, Energy and Global Environment, Surface Hydrology, Urban Hydrology and Hydraulics, Design of Structural Systems etc.

04 Mechanical Engineering

Program Overview

The Mechanical engineering program offered by our institute is an interdisciplinary program that encompasses areas such as robot control, nanotechnology, high-end manufacturing, industrial software, mechanical design, and new materials. The curriculum covers the theoretical foundations and key technologies for modern industry, energy, sensing, computing, medical care, security, and national defense. Students in this program are oriented towards solving practical engineering problems. They acquire a broad knowledge base in relevant disciplines, emphasize hands-on experience and engineering practice, and develop exceptional interdisciplinary research abilities along with a strong sense of humanistic literacy, a global perspective, and a deep-rooted patriotism. They are poised to become highly skilled innovative talents and leaders with global competitiveness in the relevant engineering fields.

Career Prospects

Graduates will pursue careers in various types of paths, including:

- Manufacturing, energy and transportation
- Aerospace
- Industrial software
- Renewable energy
- Medical devices
- Thermal management
- Automotive industry
- Robot control
- Thermal system
- Industrial automation
- New functional materials

Distinctive Features

Compared to traditional Mechanical engineering, this program offers a broader range of specializations, wider research objects, and wider employment channels. The curriculum integrates engineering design, communication, teamwork and laboratory practice, and keeps up with the current wave of digitalization and intelligence in the mechanical field.

Representative Courses

Introduction to Computing, Engineering and Science, Electrical and Electronic Circuits and Experiments, Introduction to Robotics, Introduction to Machine Learning, Control Theory, Micromanufacturing Processes and Automation, Computer Aided Design, Design for Manufacturability, Thermodynamics, Heat Transfer, Fluid Mechanics, Statics , dynamics, solidmechanics, engineering materials, mechanical system dynamics, signal processing,sensors and their instruments, mechanical design, MEMS devices and systems, energy conversion systems, numerical heat transfer and flow, etc.

Dual Degrees

Four Years of Study

Dual Degrees

Excellent Experience

Bang for The Buck

Students who successfully complete the undergraduate program and meet the requirements of both universities will receive two bachelor's degrees in their respective major fields:

Bachelor degree from the University of Illinois Urbana-Champaign

Bachelor degree from Zhejiang University

Graduation destination

ZJUI currently has 3 cohorts since its established, and the placement result continues to shine. Take the placement of year of 2022 as example, the initial further study rate of class of 2022 is 93%, and the overseas further study rate is 73%. According to the four major global education rankings (QS, THE, U.S. News, ARWU), 57% of students preparing for further study have received offers from the top 10 universities in the world, 83% of whom have received offers from the top 20 universities, 92% of whom have received offers from the top 30 universities.

Graduate Program

Program Overview

ZJUI adopts a graduate education model that emphasizes the fusion of diverse academic fields and the seamless integration of education, industry, and research. Our graduate programs encompass seven disciplines: Artificial Intelligence, Electronic Information, Mechanical Engineering, Energy and Power Engineering, Electrical Engineering, Civil and Hydraulic Engineering and Traffic and Transportation.

ZJUI takes pride in its multifaceted team of supervisors, spanning nearly twenty primary disciplines, including Electronic Science and Technology, Power Engineering, and Engineering Thermophysics.

ZJUI is dedicated to tackling the intricate challenges in fundamental science. With the support of our interdisciplinary research teams, we actively seek out innovative solutions and take the lead in technological progress. ZJUI has created a top-tier research and training environment for our graduate students, with a commitment to nurturing engineering professionals who excel in academic rigor, possess strong research acumen, and embody a culture of innovation and entrepreneurship. Our graduates are equipped to grasp and guide technological advancements, contribute to societal advancement, and drive industrial revitalization.

01 Master Degree (Professional) ——085400 Electronic Information

Program Overview

Master Program of Electronic Information aims to cultivate graduates' ability to solve problems by electronic information technology, curriculum is composed of technically frontier courses around data collection, data analysis, information integration, comprehensive control and software/hardware methods. Students are supposed to master cutting-edge technologies in electronic information, such as circuit design, advanced control, artificial intelligence, data science, software design, optimization methods, etc., and become professional and technical personnel with interdisciplinary ability.

Career Prospects

IT Giant, Artificial Intelligence, Software Development, Hardware, Data Analysis, Intelligent Manufacture, Robotics, Financial Service, Technical Consulting, System Integration

Representative Courses

Artificial Intelligence, Topics on Image Processing, Data Science & Analytics, Optimization Methods, Mathematical Modeling and Applications in Electronic Information Engineering, Control Systems, Computational Electromagnetics

Distinctive Features

Characterized by significant interdisciplinary, the curriculum aims at the interdisciplinary integration of popular disciplines such as artificial intelligence, data science, integrated circuit and advanced control. It not only attaches importance to the students' learning of algorithm development and application knowledge, but also emphasize the training of students' design and application ability of hardware technology required in data analysis and system integration.

02 Master Degree (Professional) ——085800 Energy&Power

Program Overview

The Energy & Power master program orient towards popular research fields of electrical engineering and power engineering, commit to educate candidates with solid theoretical foundation and excellent interdisciplinary research ability.

Representative Courses

Power Electronics, Control System, Heat Transfer, Power Semiconductor Devices and Application, Electric and Hybrid Vehicle Propulsion Systems, Introduction to Robotics, Optimization Methods, Numerical Methods, Artificial Intelligence

Career Prospects

Graduates have opportunities in research, design, development and system maintenance in multinational companies, scientific research institutions, enterprises and departments, obviously competitive in Yangtze River Delta job market. Students are also encouraged to pursue studies abroad and apply for doctoral degrees. Graduates have potential of being research elite in global universities, senior technical backbone in multinational companies, project supervisor of complex engineering design.

Distinctive Features

As fundamental industry supporting national economy. The energy industry is the basic industry of China's national economy. With the accelerated electrification of the energy industry today, this major focuses on the research of electrical engineering, power engineering related electrical equipment, system operation, automatic control, power electronics technology, engineering thermal physics, computer application and other fields. Its research object is broader, employment area is broader.

03 Master Degree (Professional) ——085500 Mechanical Engineering

Program Overview

Mechanical engineering is an engineering discipline that analyze, design, manufacture and maintain mechanical systems by laws of physics, it is cornerstone of manufacturing industry. "Made in China 2025" clearly puts forward five major projects: manufacturing innovation center construction project, intelligent manufacturing engineering, industrial strong foundation project, green manufacturing engineering and high-end equipment innovation project. all closely related to mechanical engineering.

Career Prospects

Robotics, Chips Manufacture, Micro-nano Machining, Instrument&Facility, Aerospace, Energy & Power, Medical Equipment, Additive Manufacturing, National Defense Equipment, System Control

Representative Courses

MEMS Devices, Additive manufacturing technology, Energy Conversion System, Industrial System Control, Data Science & Analytics, Heat Transfer

Distinctive Features

Conducted entirely in English, our program focuses on multidisciplinary mentorship, harmonizing theory and practice. Our aim is to nurture comprehensive talents equipped with a global perspective and leadership qualities in the realm of urban sustainable development. Emphasis is laid on honing problem-solving skills and fostering innovative thinking. Through hands-on experiences, internships, interdisciplinary courses, and more, students will refine their comprehensive skills, actively contributing to the creation of intelligent, environmentally-conscious cities.

04 Master Degree (Professional) ——085900 Civil & Hydraulic Engineering

Program Overview

Master program of Civil Engineering is associated with all discipline of civil engineering industry. Combining with the international, multidisciplinary cross characteristics of ZJUI, it is a breakthrough out of classic boundaries between majors, courses about computer science, electronic information, mechanical engineering are involved in curriculum, provide sufficient theoretical training in structural engineering, hydraulic engineering and traffic engineering, equip students with comprehensive professional skills, build up the knowledge structure of general engineering talents.

Career Prospects

Governmental Organization, Design Firm, Real Estate, Tech Company
Urban Planning, Construction, Pollution and Ecology, Water Disposal, Hydrology, Biological pollution, Underwater Dynamics and Waste Disposal, Traffic Engineering, Structural Analysis&Design, Smart City and Intelligent Infrastructure, Disaster Prevention

Distinctive Features

Multi-disciplinary and bilingual curriculum across civil engineering, water conservancy, computer science, information science, etc. Advanced scientific research opportunities focus on sustainable systems include civil structures, water conservancy and transportation applications.

Representative Courses

Sustainable Urban System, Structural Analysis, Environment System, TSteel Structure, Reinforced Concrete, Structural Dynamics, Surface Hydrology

05 Master Degree (Professional) ——085801 Electrical Engineering

Program Overview

The Energy and Power Engineering program focuses on emerging and pivotal research domains within electrical engineering, such as power electronics, power systems, integrated energy, energy storage, and their applications.The program is dedicated to cultivating highly skilled and innovative professionals with a solid foundation in specialized theory and excellent interdisciplinary research capabilities.

Representative Courses

Modern Power Electronics Circuits
Modern Control Theory
Advanced Heat Transfer
Electric and Hybrid Vehicle Systems
Numerical Computational Methods
New Energy Generation – Systems and Control

Career Prospects

Graduates of this program will have the opportunity to work in multinational corporations, domestic and foreign research institutions, as well as enterprises and departments, engaging in research, design, development, and system maintenance in related fields. Particularly in the Yangtze River Delta region, students have a distinct advantage in the job market. Additionally, ZJUI encourages students to pursue further education abroad and attain doctoral degrees. Within five years of graduation, students can become research elites in domestic and international universities, key technical personnel in multinational corporations, and project leaders in complex engineering design, offering vast development prospects.

Distinctive Features

The energy sector constitutes a vital cornerstone of China's national economy. Given the ongoing rapid electrification within this industry, the program prioritizes the exploration of subjects encompassing electrical equipment, operational systems,automated control, power electronics advancements, computer utilization, and affiliated domains within the realm of electrical engineering. This approach results in a more extensive research purview, consequently yielding an expanded spectrum of potential career pathways.

06 Master Degree (Professional) ——086100 Traffic and Transportation

Program Overview

Our program revolves closely around the sustainable development of urban systems, incorporating the ideals of smart cities. It takes into account economic, environmental, and engineering factors, deeply exploring cutting-edge areas such as sustainable transportation, intelligent mobility, and urban ecology. Embracing forefront technologies including autonomous driving, intelligent sensing, and carbon footprint analysis, our goal is to forge an innovative, efficient model for smart cities that will lead urban progress. Uniquely blending principles from urban planning, transportation engineering, and technology integration, our program provides students with a comprehensive grasp of urban sustainability. Through rigorous academic exploration and practical application, students will uncover the intricacies of urban transportation and seize the challenges and opportunities presented in constructing smarter, eco-friendly cities.

Career Prospects

Graduates will find avenues in diverse sectors, including urban planning, smart transportation, and sustainable development. This encompasses roles within governmental bodies, consulting firms, research institutes, and beyond. By designing intelligent transportation systems and driving sustainable urban growth, they will contribute advanced ideas and practical experience, fostering industry advancement.

Representative Courses

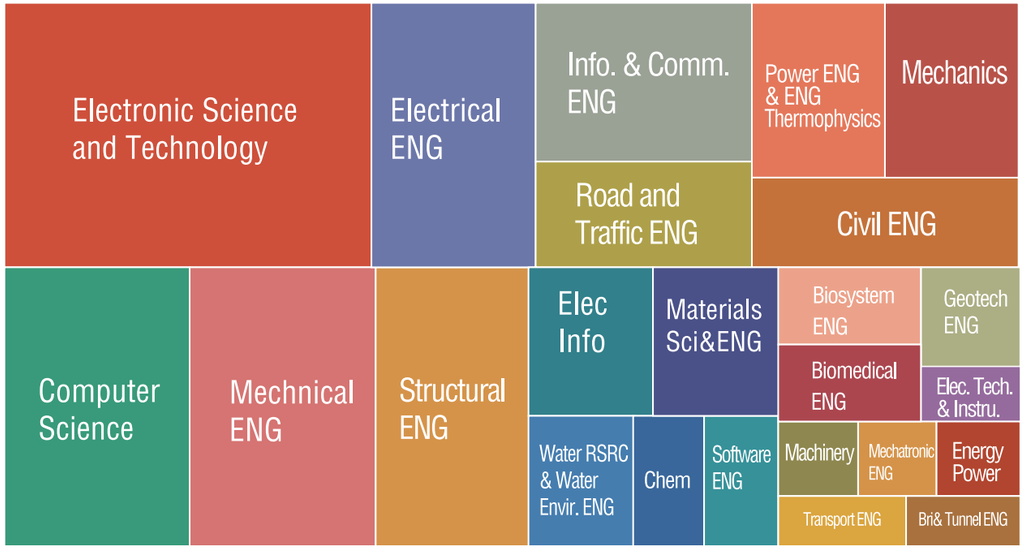
Sustainable Urban Systems, Intelligent Transportation and Mobility, Traffic Capacity Analysis, Urban Resource and Environmental Integrated Systems, Intelligent Perception, Traffic Policy Analysis.

Distinctive Features

Conducted entirely in English, our program focuses on multidisciplinary mentorship, harmonizing theory and practice. Our aim is to nurture comprehensive talents equipped with a global perspective and leadership qualities in the realm of urban sustainable development. Emphasis is laid on honing problem-solving skills and fostering innovative thinking. Through hands-on experiences, internships, interdisciplinary courses, and more, students will refine their comprehensive skills, actively contributing to the creation of intelligent, environmentally-conscious cities.

Doctoral Program

ZJUI' s PhD Candidates focus in 25 research areas, including Electrical Engineering, Power Engineering and Engineering Thermophysics, Chemistry, Mechanical Engineering, Computer Science & Technology, Mechanics, Agricultural engineering, Biomedical Engineering, Civil Engineering, Information & Communication Engineering, and so on.



ZJUI 5.We Deliver World-leading Research

Research Overview

Overview

The ZJU-UIUC Institute breaks down boundaries between traditional engineering disciplines, and does not plan to establish discipline-based departments. Instead, it creates cross-disciplinary teams and activities, and encourages multidisciplinary knowledge convergence and collaboration. Corresponding to this cross-disciplinary emphasis, 3 research divisions are established:

-Research Division for Engineering Sciences for Devices and Applied Materials

- Research Division for Data and Information Sciences

- Research Division for Energy, Environment, and Sustainable Systems Sciences

Since its establishment, ZJUI has always insisted on orienting research towards modernization, globalization and future construction. A powerful force in the new journey of development, stimulate new impetus through interdisciplinary and integration, and demonstrate new achievements for the future and human well-being.

Research Facts

2022 World's Top 2% Scientists published by Stanford University

ZJUI Prof. Lee Der-Horng, Prof. JIN Jianming, Prof. MA Hao, Prof. CHEN Xiqun, Prof. LI Erping, Prof. Philip T. Krein, Prof. XIAO Yan, Assist. Prof. YANG Hao, and Assist. Prof. SHI Ye, in total 9 faculty members, were selected in the list of the World' s Top 2% released by Scientists Stanford. It reflects that the scholar has a world academic influence in his research field and has made outstanding contributions to the development of this field.

2.167 Million

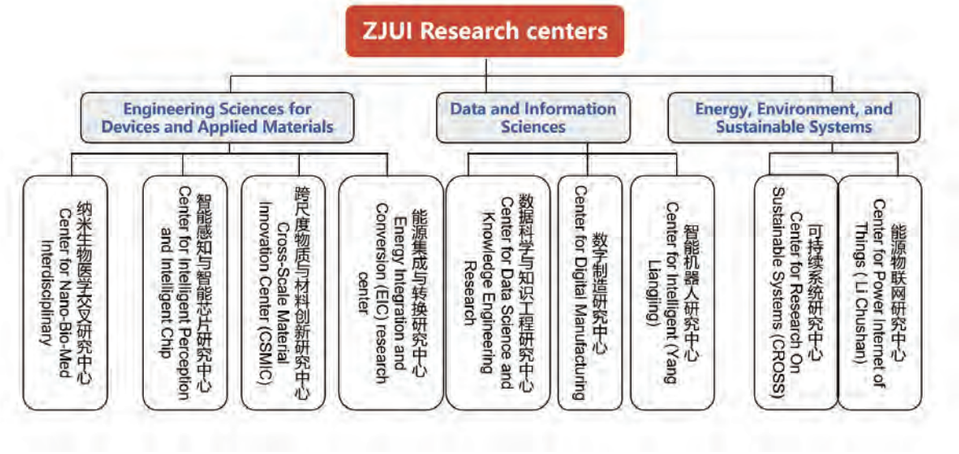
In 2022, per capita research funding ranked Tier 1 in ZJU

72 %

International cooperation papers reached 72%

The above is based on research data statistics in 2022

ZJUI Research Centers



Joint Research Centers with Industry/Local Government

ZJU- Angelalign Research & Development Center for Intelligent Healthcare

Research Center for Bio-Based Materials and Carbon Neutral Development

ZJU - Zinsight Research & Development Center for Sic Application

ZJUI 6.We Grow with a Strong Faculty Team

Faculty

Mark D. Butala Assistant Professor
Research interests: Remote Sensing, Image Reconstruction and Tomography, and Statistical Signal and Image Processing Theory and Application

Kemal Celebi Assistant Professor
Research interests: Nanomaterial synthesis, ultrathin membranes and functional coatings

Chen Wenchao Associate Professor
Research interests: Multi-physics Modeling and Computation of 3D Integrated Circuits and Device, Nano Electronics, Computational Electromagnetics
Jiahuan CUI

Cui Jiahuan Assistant Professor
Research interests: Computational Fluid Dynamics, Machine Learning, Design Optimization, Aerodynamic and Heat Transfer Optimization in Turbomachinery

Cristoforo Demartino Assistant Professor
Research interests: Structural Engineering, Wind Engineering, Earthquake Engineering, Structural Dynamics, Bridge Engineering

Diao Ruisheng Associate Professor
Research interests: Power system security and stability; power grid modeling, simulation and analysis; application of HPC and Artificial Intelligence; planning, operation and control of new-style power system

Thomas Honold Professor
Research interests: Research interests: Algebraic Coding Theory (subspace codes, two-weight codes, linear codes over finite chain rings), Finite Geometry (partial spreads, arcs, blocking sets in geometries over finite fields and chain rings)

Hu Huan Assistant Professor
Research interests: Advanced Nanomanufacturing, Bio-inspired micro/nano sensors, Lab on a Chip integrating Nanotechnology

Simon Hu Assistant Professor
Research interests: Nanomaterial synthesis, ultrathin membranes and functional coatings

Jin Jian-Ming Professor
Research interests: Computational electromagnetics, multiphysics modeling, scattering and antenna analysis, electromagnetic compatibility, high-frequency circuit modeling and analysis, bioelectromagnetics, and magnetic resonance imaging

Philip T. Krein Professor
Research interests: Power electronics, Electric machinery and electromechanics, Advanced and renewable energy systems, Electric transportation, Low-energy buildings

Lee Der-Horng Qiushi Chair Professor
Research interests: Intelligent Transportation Systems (ITS), Transportation Planning, Transportation Policy, Metro Systems Modeling, Container Port Operations, Traffic Simulation, Public Transportation Systems, AI and Data Analytics in Urban Mobility Research, etc.

Timothy H. Lee Assistant Professor
Combustion, Biofuels, Waste to Energy, Internal Combustion Engines, Diesel, Gasoline

Li Binbin Assistant Professor
Research interests: Structural Dynamics, Risk & Uncertainty, Structural Health Monitoring, Bayesian statistics

Li Chushan Assistant Professor
Research interests: High Power Density Power Converter, Multilevel Converter, Transportation Electrification, High Power Drive System

Li Erping Professor
Research interests: RF nanoelectronics, High speed electronics, Microwave and millimeterwave engineering

Lin Yu Assistant Professor
Research interests: Super-resolution microscopy, light-sheet microscopy, automated microscope and high-throughput image data process

Liu Zuozhu Assistant Professor
Research interests: Machine Learning, AI for Healthcare, Big Data Analytics in Wireless Networks, Generative Models and Representation Learning

Pavel Loskot Associate Professor
Research interests: Statistical signal processing, mathematical modeling of stochastic systems, network and distributed systems

Ma Hanzhi Assistant Professor
Research interests: Electromagnetic Compatibility, Signal Integrity, Neuromorphic Chips and Electronic Automation Design

Ma Hao Professor
Research interests: Advanced Control in Power Electronics, Wireless Power Transfer, Fault Diagnosis of Power Electronic Circuits and Systems, and Application of Power Electronics.

Meng Xiangming Assistant Professor
Research interests: Intersection of machine learning, information theory, signal processing, and statistical mechanics

Said Mikki Associate Professor
Research interests: Electromagnetic Theory and Applications, Multiphysics, Wireless Communications, Computational Methods, Machine Learning and AI, Optimization Methods, Nanotechnology, Quantum Information Processing

Yasutaka Narazaki Assistant Professor
Research interests: Structural engineering, computer vision, machine learning/artificial intelligence, and robotics

Wee-liat Ong Associate Professor
Research interests: Nanoscale Heat Transfer, BioMEMS, Energy

Oleksiy Penkov Associate Professor
Research interests: Physics and materials science such as nanolayered coatings, surface engineering, and ion irradiation physicss

Qian Chao Assistant Professor
Research interests: Metamaterials, machine learning, and optical computing

Qiu Lin Assistant Professor
Transportation electrification, grid resilience enhancement, data-driven system control algorithm as well as Bioelectromagnetics

Shao Fangwei Associate Professor
Research interests: Nucleic Acid Chemistry, Bioinorganic Chemistry, Chemical Biology, and DNA Nanotechnology

Shi Ye Assistant Professor
Research interests: Soft materials, soft actuators and robotics, energy conversion and storage, wearable devices

Tan Shurun Assistant Professor
Research interests: Electromagnetic theory, computation, scattering, sensing, environment, compatibility and reliability; environmental microwave remote sensing, wave-functional materials, wireless communication, V2X, neuromorphic chip, nano-structure.

Ting K.C. Professor
Research interests: Bio-based Processing and Production Systems, Biomass and Renewable Energy, Precision and Information Agriculture, Agricultural and Biosystems Management, Agricultural Safety and Health, Food Quality and Safety, Environmental Stewardship

Wang Aili Assistant Professor
Research interests: Low-power Integrated Circuits Design, Analog/Mixed Signal Integrated Circuits Design, Data Converters, Sensors, and Bioelectronics.

Wang Hongwei Tenured Professor
Research interests: Industrial Knowledge Graph，Intelligent Reasoning and Decision Making, Digital Twins, Data-Driven Fault Diagnosis

Wang Gaoang Assistant Professor
Research interests: Computer Vision, Machine Learning, Image and Video Processing

Xiao Yan Tenured Professor
Research interests: Integrated Protection of Engineering Structures, Hybrid and Composite Structure, Modern Bamboo and Timber Structure, Advanced and Green Civil Engineering Materials Research and Development, Manufacture and Applications, Experimental Methods and Analysis

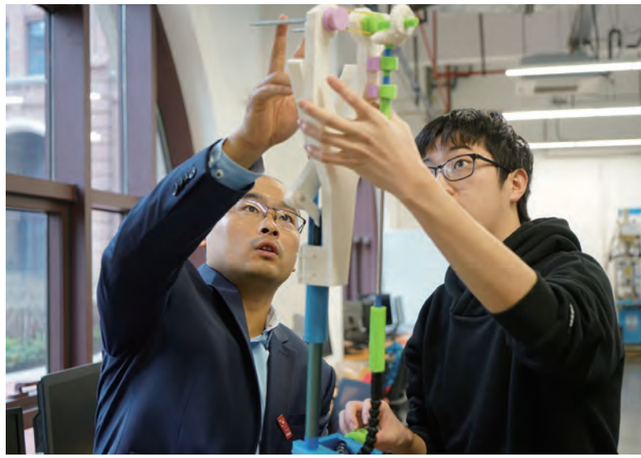
Yang Hao (Howard) Assistant Professor
Research interests: Modeling of modern wireless networks, high dimensional statistics, graph signal processing, and machine learning

Yang Liangjing Assistant Professor
Research interests: Robotics, Computer Vision, Vision-Guided Micromanipulation

Zhang Meng Assistant Professor
Research interests: Wireless and computer networks, optimization for intelligent networks, edge intelligence, and decentralized machine learning

Zhou Cui Lecturer
Research interests: Traffic operation and simulation, Intelligent transportation system, Structure health monitoring

Zhu Tingju Associate Professor
Research interests: Water Resource Systems Engineering, Water-Energy-Food Nexus, Integrated Modeling of Global Water Resource Systems Engineering, Water-Energy-Food Nexus, Integrated Modeling of Global Water-Food Systems, Flood Protection Planning, Climate Change Adaptation, Water Economics and Policy

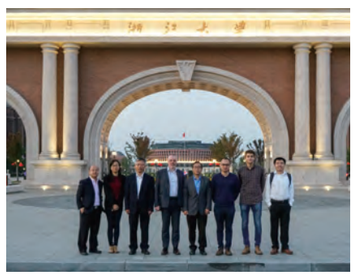


ZJUI 7.We Collaborate with the World

Cooperation and Communication

On October 21, 2019, the 12th International Workshop on the Electromagnetic Compatibility of Integrated Circuits was launched. The conference was being held in China for the first time since its inception in1999.

The First International Concrete Dragon Boat Competition hailed a success!



On November 5th of 2019, delegation from Imperial College London, includes Fellow of the Royal Academy of Engineering, Deputy Head of the Department of Electrical and Electronic Engineering of Imperial, and Director of Energy Future Lab, Prof. Tim Green, visited ZJUI. The delegation came to discuss about future possibilities of setting up collaborative laboratories, conducting research projects and nurturing future leaders with ZJUI.

In August 2020, UIUC Academic Bridge exchange students registered at ZJUI to begin their learning and life experience at ZJUI.

Prof.Ma Hao was invited to deliver a speech at the Excellent Engineer Training Summit

ZJUI makes an appearance at 2022 APSARA Conference and Dean Lee Der-Horng team discussed the best practice of sustainable, livable, and smart cities

Academicians are gathered! ZJUI was invited to attend the 2022 International Forum on Engineering Science and Technology & 14th China Engineering Management Forum

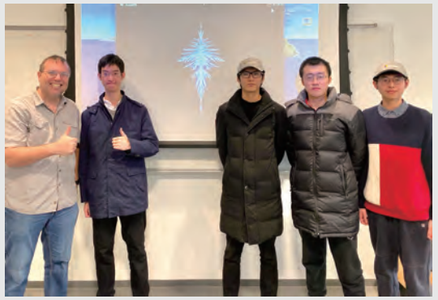
ZJUI Engineering Symposium & Juanhu International Academician Lecture Hall, convened by Academician Lee Der-Horng, were held May 12, 2023

Global Volunteers

Overseas Experience

HKU

UIUC



Oxford

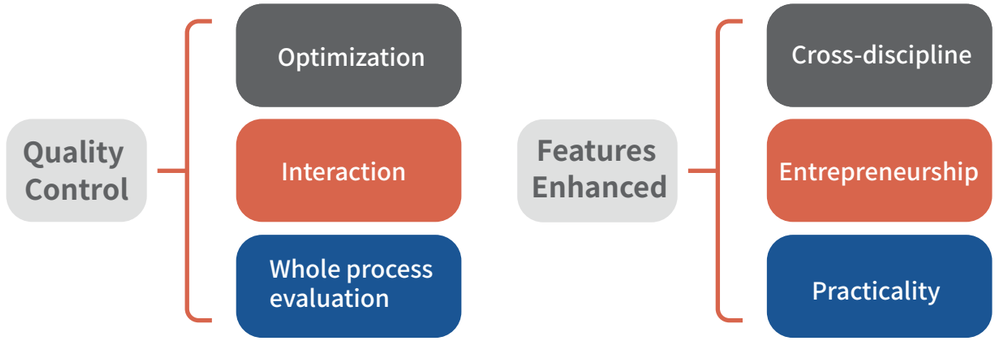
NUS

UMich

Broaden students’ horizon
through Global Overseas Exchanges

ZJUI 8.We Shine on Various Stage

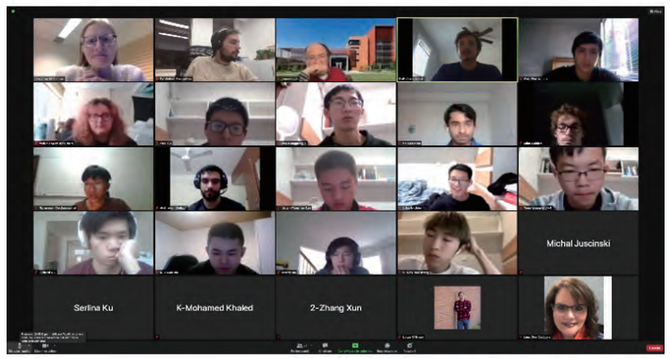
Features



Innovation in Class Organization

The Global Classroom:

Diversified student body
Collaboration across cultures



Innovation in Course Content: Cross Innovation Series of Courses

1.Engineering learning from day one

ENGR 100 - Engineering Orientation
ME 170/SE 101 - Computer Aided Design
ECE 110 - Introduction to Electronics
CEE 195 - About Civil Engineering
ECE 120 - Introduction to Computing

2.Joint courses that converge disciplines

ME 170/SE 101 - Computer Aided Design
ME 290/ECE 200 - Engineering Seminar
ECE 307/CEE 398 - Engineering Decision Making
CEE 300 / ME 330 - Engineering Materials
ECE 365/ENG 398 - Data Systems Science

3.Cross-discipline advanced courses to provide a broad perspective

ECE 437/ENG 498/ME 498/CEE 498 - Signals and Sensors, with laboratory
ME 445/ ECE 470 - Robotics, with laboratory
ECE 397 - Data Mining and Machine Learning
CEE 498/ECE 498/ ME 498 - Energy and Environment: Engineering Science Issues
CEE 498/ECE 498/ME 498 - Smart Cities, Smart Infrastructure
ECE 485/ME 485 - MEMS Devices & Systems

4.Design that transcends the disciplines

ME 270/TAM 270 - Design for Manufacturability
TE 345 - Design and Innovation
ENG 490/ECE 445/ME 470 - Multidisciplinary Senior Design
ENG 491 - Multidisciplinary team design

5.Ongoing creativity, entrepreneurship and leadership learning and opportunities

TE 250 - From Idea to Enterprise
TE 333 - Creativity, Innovation, Vision

Innovation in Course Design: Introduction to Engineering

Launched Engineering Seminar Series to exposure students to the cutting-edge technology and industry trends through a series of seminars by prestigious guests from the academia or industry

Some visiting masters

Lee Luke P
Former Vice President, National University of Singapore
新加坡国立大学前任副校长

Chen Liming
Chairman of IBM Great China
IBM大中华区董事长

Martin Ester
Professor, Simon Fraser University, Canada
加拿大西蒙菲莎大学特聘教授

Jianqing Pan
Chairman of TDG Group
天通控股董事长

Tan Don
Former President of the IEEE Power Electronics Society
IEEE电力电子学会前任主席

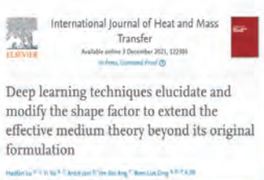
Pang Yunguang
Director of HUAWEI Research Institute,Hangzhou
华为杭州研究所所长

Highlights

Shining Placements

Take the placement of 2022 as example, the class of 2022 graduated with ongoing shining placement outcomes— The initial further study rate is 93%, and the overseas further study rate is 73%. According to the four major rankings (QS, THE, U.S. News, ARWU), 57% students have received offers from the top 10 universities in the world, 83% students have received offers from the top 20 universities, 92% students have received offers from the top 30 universities.

Excellence in Innovation Practice and Global Competence



21' Electrical Engineering, LU Haofan and YU Yi, Published a Paper as First Authors in A Top Journal on Heat Transfer [JCR/SCI Q1]

Students participated in NSFC project and published an EI paper as an independent author; Participated in 1 key R&D project sub-project of the Ministry of Sci & Tec and published a poster as the first author at the AGU Conference

Students of Class of 2022 received Best Paper Award at ICEBE 2019 ranked at the 1st place. This is the first time that undergraduates has won this award.

Students of Class of 2021 published a paper at the 14th Asian Computer-Assisted Surgery Conference and also on Journal of Engineering, IET

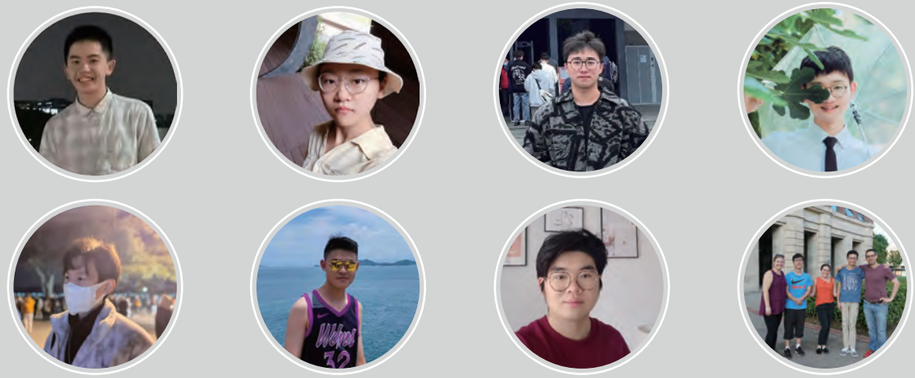
Student team receives Outstanding Winner INFORMS Award in the 2019 international Mathematical Contest in Modeling

Student wins runner-up in 2021 American Society Civil Engineering Mid-Pacific Student Conference Essay Contest

"Team Meta" from ZJUI received 2nd place and a design award in the international regional Robomaster competition

Students of Class of 2021 in teams with ZJU group won the First Place(Gold Medal) in IEEE ICRA competition

Winners of the UIUC Undergraduate Essay Contest



These students participated in the UIUC Rhetoric Student Essay Contest with native speakers and were selected as winners of the contest with their unique essay topics, rigorous logical argumentation, and compact essay structure.

Assessments

December 2019

ABET experts reported that the ZJUI inspection was among their best visit experiences, and they anticipate ZJUI to become a top engineering college.

Teaching quality assessment by UIUC

April 2017

The review team was impressed with the status and progress of the ZJUI initial cohort. The quality of education was reported to be extremely high and the material covered is at or above the level of the UIUC campus.

Evaluation by experts of Chinese-foreign cooperation education

November 2018

- School and local support has outstanding advantages nationwide
- The introduction and absorption of high-quality educational resources have clear steps and distinctive features
- The construction of a high-level international education platform has an important spillover effect in China

ZJUI 9.We are ZJUI

Where we are

International Campus

Zhejiang University (ZJU) is one of China’ s top higher education institutions, as well as one of its oldest, its roots can be traced back to 1897. In February 2013, ZhejiangUniversity launched the construction of the International Campus, with the following objectives：

-Exploring new models of higher education that combine the best practices of the East and the West

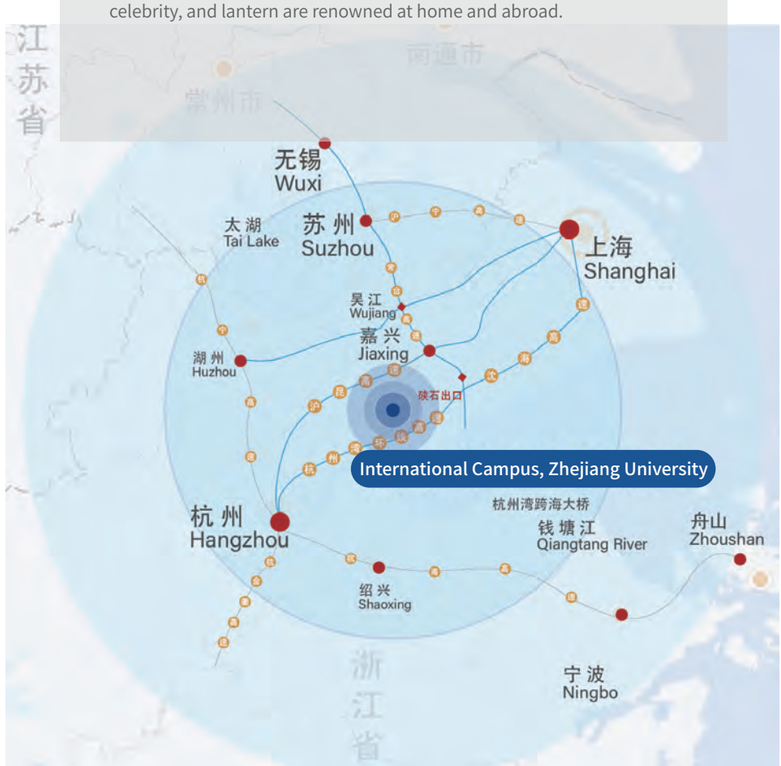
-Drawing on the world's most advanced learning and teaching experiences

-Cultivating individuals with innovative minds and international visionThe International Campus adopts the international collaborative education model of “Self-Initiation, High-Standard, One to Many (i.e. 1+x)” by partnering with the world’ s top-ranking universities and disciplines.

Two joint institutes have already been successfully established with the University of Edinburgh (ZJU-UoE Institute) and the University of Illinois at Urbana-Champaign (ZJU-UIUC Institute). In addition, Zhejiang University International Business School (ZIBS) was officially established, as well as a number of international research centers. In May 2019, the International Collaborative Education Model developed by the International Campus was included in the“ Integrated Development Plan Outline of the Yangtze River Delta”. In September 2022, the National Development Reform Committee, the Ministry of Education, and the Ministry of Science and Technology jointly issued the Construction Plan for the International Collaborative Education Model of International Campus, Zhejiang University.

Location

The International Campus of Zhejiang University is located in Haining, Zhejiang, which is the core hinterland of the Yangtze River Delta Economic Circle. It borders Hangzhou to the west, Suzhou to the north, and 120 kilometers to the east from Shanghai. Within 2 hours, it is accessible to the five airports in the region. The Shanghai Hangzhou Railway and high-speed railway cross Haining, and six expressways pass through the area, connecting Hangzhou, Suzhou, Shanghai, Ningbo, and other places. The Hangzhou (Linping) - Haining intercity railway, which ends on the east side of the campus, was opened in 2020, providing convenient transportation for our faculty and students. Haining has a long history and is one of the birthplaces of Liangzhu culture. Since ancient times, its cultural heritage has been profound, and many celebrities have emerged. Famous Chinese scholar Wang Guowei, martial arts novelist Jin Yong, poet Xu Zhimo, and military theorist Jiang Baili are all from Haining. Its Culture of the Tidal bore, celebrity, and lantern are renowned at home and abroad.



We are ZJUI

Zealous

Joint

Unique

Innovative

Students discuss how ZJUI change their lives

Li Haoyu
2021 Intake, Master students

ZJUI creates a cross-disciplinary platform. Students are not restricted in their course selection and can take courses that interest them across programs. We collaborate in groups to complete projects, so that students from different programs and grades can communicate with each other and have a good exchange of ideas.
ZJUI provides a good research atmosphere. It holds various research competitions and report lectures in order to enhance our interest in research and broaden our horizons，such as the Concrete Dragon Boat Competitions, the ZJUI Engineering Symposium etc.
ZJUI enriches after-school cultural life: The residential college integrates the functions of living, studying, entertainment, exercise and communication. In addition, it holds a series of cultural activities, such as traditional culture experience day, fluorescent night run, Grassland Music Festival and so on. These rich and wonderful activities have greatly enriched our spiritual world.

Xiao Dahai
2022 Intake, Master students

The three years I spent at ZJUI Institute were precious and unforgettable, and they gave me a unique and refreshing experience, bringing my 19 years of study to a perfect end. It is not only a place with first-class study and living conditions and a picturesque campus environment, but also a group of professors and teachers who pursue the truth and have a heart for our country. Whether it is the ordinary building housekeepers, cleaning staff, or ZJUI leaders, supervisors, tutors, staffs who are closely related to your research and study, they are all doing their best to give you a careful, caring and comfortable platform. Choose ZJUI and achieve unlimited possibilities!

Qiu Jiatui
2022 Intake, Master students

I have found that the master's programs here place more emphasis on practice and application. In the courses, I learned how to analyze and solve problems, how to conduct research and innovation, how to collaborate with classmates, and how to effectively organize time and resources.
I also have met many classmates and professors from different countries and regions. We participate in various activities and organizations together, and share each other's culture and experience. These experiences have made me more open and confident, and have broadened my horizons.

Qiu Xubin
2020 Intake, Mechanical Engineering Undergraduate

The first thing that I felt most impressive during my study at ZJUI was the curriculum, which draws on the strengths of the western and eastern education, and encourages students to learn in the whole process by including pre-course quizzes, lab reports and homework assignments in their evaluation, thus avoiding the inefficient and utilitarian approach of overload study at the end of the semester. Secondly, ZJUI's well-equipped laboratories and strong mentors and professors also helped me a lot in my research attempts outside of my studies. In addition to my studies and research, The adequate sports facilities enable more students to participate in sports. The residential college also have a variety of activities that can help students grow, such as academic career planning, mentoring sessions, skill enhancement classes and experience sharing sessions with seniors, which benefit me a lot.

Wang Zichong
2022 Intake, Master students

Since I came to ZJUI, I can deeply feel the importance that ZJUI attaches to students. ZJUI giving us a wide range of academic resources and practical opportunities, and providing us with a learning environment full of challenges and opportunities. In the weekly group meetings, I would share my research progress with my instructors and classmates. Our instructors encouraged us to think independently, present our own ideas, and promote our thinking skills and academic excellence through vigorous academic debates. ZJUI also provides first-class laboratory facilities and data resources，organizes academic seminars, invites renowned scholars and industry experts from home and abroad to share their research results. These events allow us to stay in close contact with industry, understand current research trends and market needs, and prepare for our future careers.

Kong Zitai
2019 Intake, Computer Engineering Undergraduate

2019 Intake, Computer Engineering Undergraduate The study life in ZJUI is extremely rich and colorful. Its curriculum design is innovative and it attaches great importance to the cultivation of our experimental ability, research ability, engineering thinking and teamwork ability. All of these are supported by perfect hardware system. In addition, ZJUI provides us with many opportunities to participate in scientific research, such as SRTP and summer research, and it seems that hands-on operation and experiments have become a normal practice for us. There are faculty members and students from all over the world, together with the all-English teaching and the impressive exchange experience to the US, which greatly helps me practice my English and broadens my horizon.

Sylvia Chung Yan Shan
2022 Intake, Computer Engineering Undergraduate

Choosing to study in ZJUI has always been a right choice. The number of students in the classroom is not much, and I think learning in this class size is just right since our interaction has been made easy. During the discussion sessions, I have the opportunity to mingle with students from four different programs, which gave me different insights and helped me realize the importance of collaborative learning. I will never feel anxious whenever I encounter problems in studies because I can ask my friends, the TAs or instructors of each course. The professors here are also easy to approach, taking initiatives to make us understand and most importantly, spark our interest in that field of study. I especially enjoy the ECE110 and ECE120 Lab session because it allows me to build the electronic circuit on my own! It' s so amazing that I can still vividly remember the pure joy when I see my little car moving and the vending machine working out nicely! In ZJUI, the living experience is as good as the learning experience. The environment is comfortable and clean, with complete equipment, and even when leaving home, I never feel strange or inconvenient.

Xu Tianyi
2022 Intake, Civil Engineering Undergraduate

In ZJUI, I can learn mathematics, physics and chemistry in general courses and practice my writing skills in rhetorical course twice a week. I can also learn modeling in civil engineering courses and reproduce the grandeur of each building in the campus on drawings. I can team up with my seniors to participate in the structural design competition, build a tower crane with bamboo materials by analyzing its stress condition, explore how to make a dragon boat with concrete together with my peers, or form a team with classmates from different programs, institutes and colleges to participate in social research and go to different cities to experience regional characteristics. ZJUI has a lot of excellent and amiable professors who can answer our questions and guide us to explore in practice and truth. On weekdays, there are often library lectures, teaching common skills, such as English writing, study abroad guidance and so on. ZJUI has never lacked the atmosphere of learning, nor the atmosphere of life.

Yin Xinchen
2021 Intake, Electrical Engineering Undergraduate

What impressed me most was its complete facilities from learning to every aspect of life. We live in single rooms in the residential college where everything I need is already in. I can put my food in the provided refrigerator and heat it with a microwave oven. If I want to cook by myself, I can also go to the public kitchen, where there are various kinds of kitchenware and seasonings, so that I can make delicious dishes. The residential college also provides reservations for language test classrooms. I used it once and the sound insulation effect was fantastic. The library is also very convenient. There are a lot of surfaces and macs on the third floor for students to use, which allows me to easily access information and complete homework. The campus also provides bookable classrooms and discussion rooms, all equipped with large screens or projectors, which can help us better discuss and communicate when we need to cooperate. All these are really cool!

ZJUI 10. Map Your Success with ZJUI

Support Us

Support Us Your support is vital to enable ZJUI fulfil its mission to prepare engineers in unique ways for global leadership and impact. The Institute strives for technical and scientific excellence, innovation and creativity, and new solutions for societal needs. ZJUI relies on funding from a wide range of sources and there are many ways that you can support cross-disciplinary research and education. Please consider supporting ZJUI today. The support of individuals, companies, and organizations helps our institute deliver world-class research and teaching. We seek to be widely recognized as one of the best engineering colleges in the world.

Contact Us

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