



JIANGSU INDUSTRIAL TECHNOLOGY RESEARCH INSTITUTE

 Web: www.jitri.org



CONTACT INFORMATION

Add: HuanYuan Central Road, Xuzhuang Software Park, 210042, Nanjing, China

TEL: 0086-025-83455109

FAX: 0086-025-83455109

Web: www.jitri.org

E-mail: rdd@jitri.org

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ABOUT JIANGSU



Jiangsu is located at the Eastern Coastal Area of Mainland, China, the Yangtze River Delta Urban Agglomeration jointly constituted by Jiangsu, Shanghai and Zhejiang has become one of the six world-class urban agglomerations. Jiangsu has become the most developed province in China.

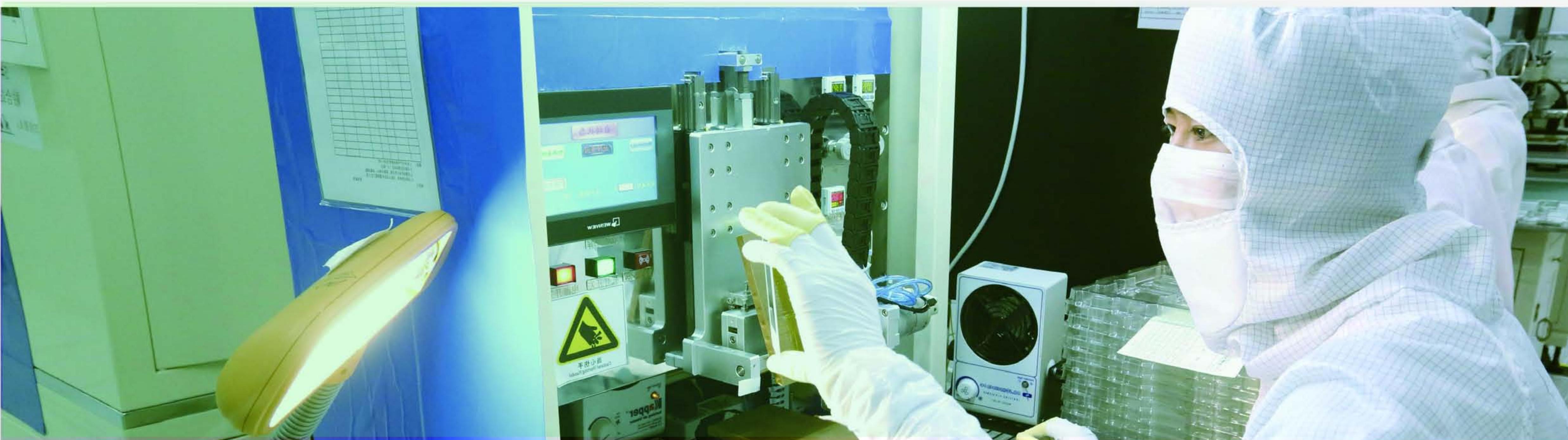
Jiangsu has rich resources in science, technology and education. In 2015, the overall R&D expenditures reached USD \$28 billion; In Jiangsu Province, there are 71 national key laboratories and engineering technology research centers, and there are 141 universities and colleges.

Population	79.2 million, ~ 6% of then national total
GDP	>US\$ 1,100 billion in 2015, 10% of the national total
GDP per capital	>US\$ 14,000
GDP growth rate	>8.5% in 2015
Foreign direct invest.	>US\$24 billion in 2015, >19% of the national total
Import and export	>US\$ 540 billion in 2015, ~14% of the national total

University	141 Universities or colleges, 1.87 million university students
Research Institute	180+ organizations under Chinese Academy of Sciences
R&D Investment	US\$ 28 billion, 2.55% in GDP
Innovation capacity	No. 1 for 7 years in CHINA (from MOST)
	- One of the provinces with the richest education and scientific resources.
	- A leading province for the innovations and the rapid growth of R & D investment.



BACKGROUND

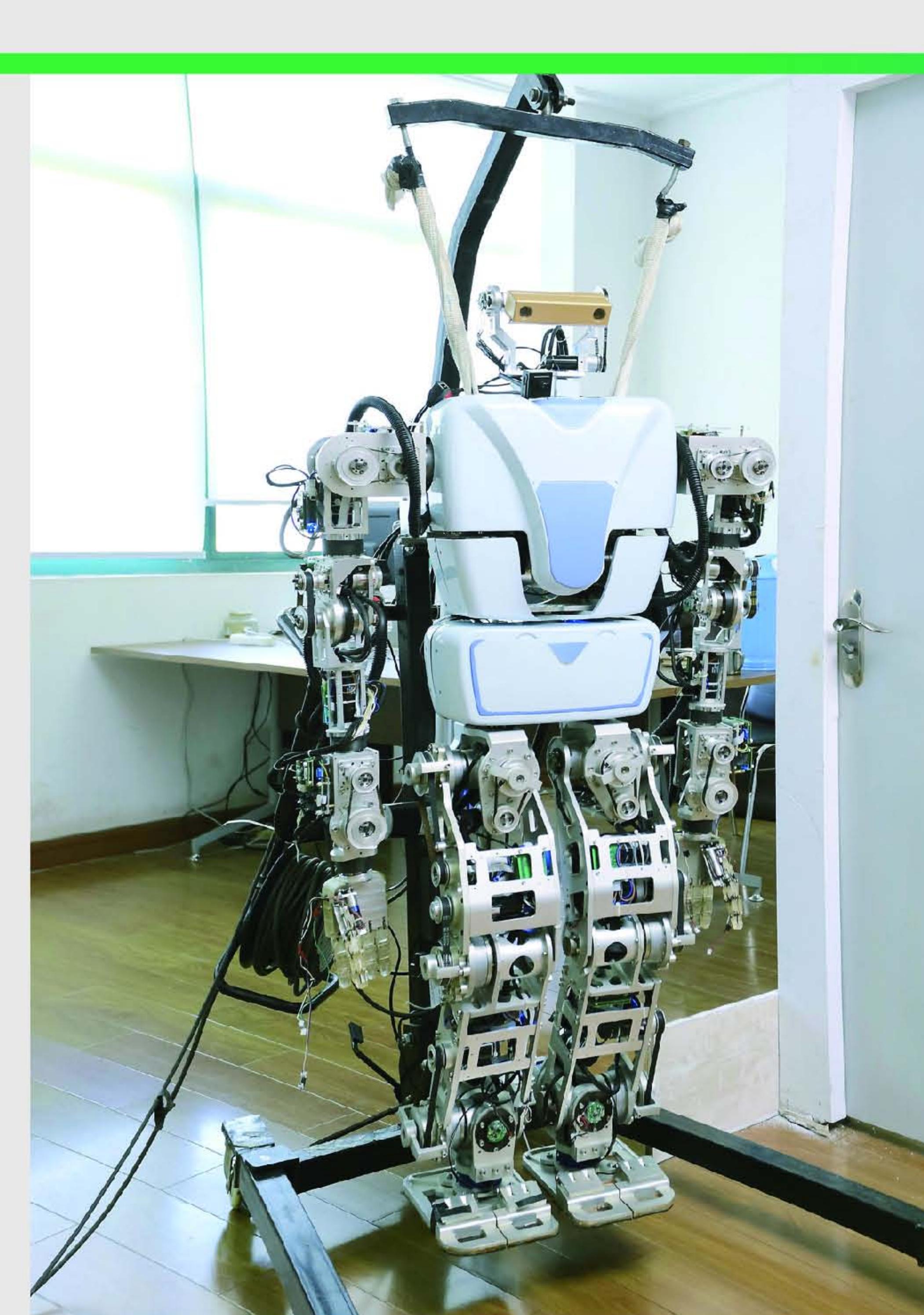


The Industrial Technology Research Institute is a new form of research and development (R&D) organization, which has come with the wave of emerging industries and the transition of the economic structure. Jiangsu Industrial Technology Research Institute (JITRI) was established in December 2013 by Jiangsu Provincial Government, which helps industries utilize the state-of-the-art technology to enhance their competitiveness in market.

Supported and organized by Jiangsu Provincial Government. JITRI is chartered with the crucial role to promote and support the industrial technology research and commercialization of the advanced technologies that may significantly impact the economic development of Jiangsu.

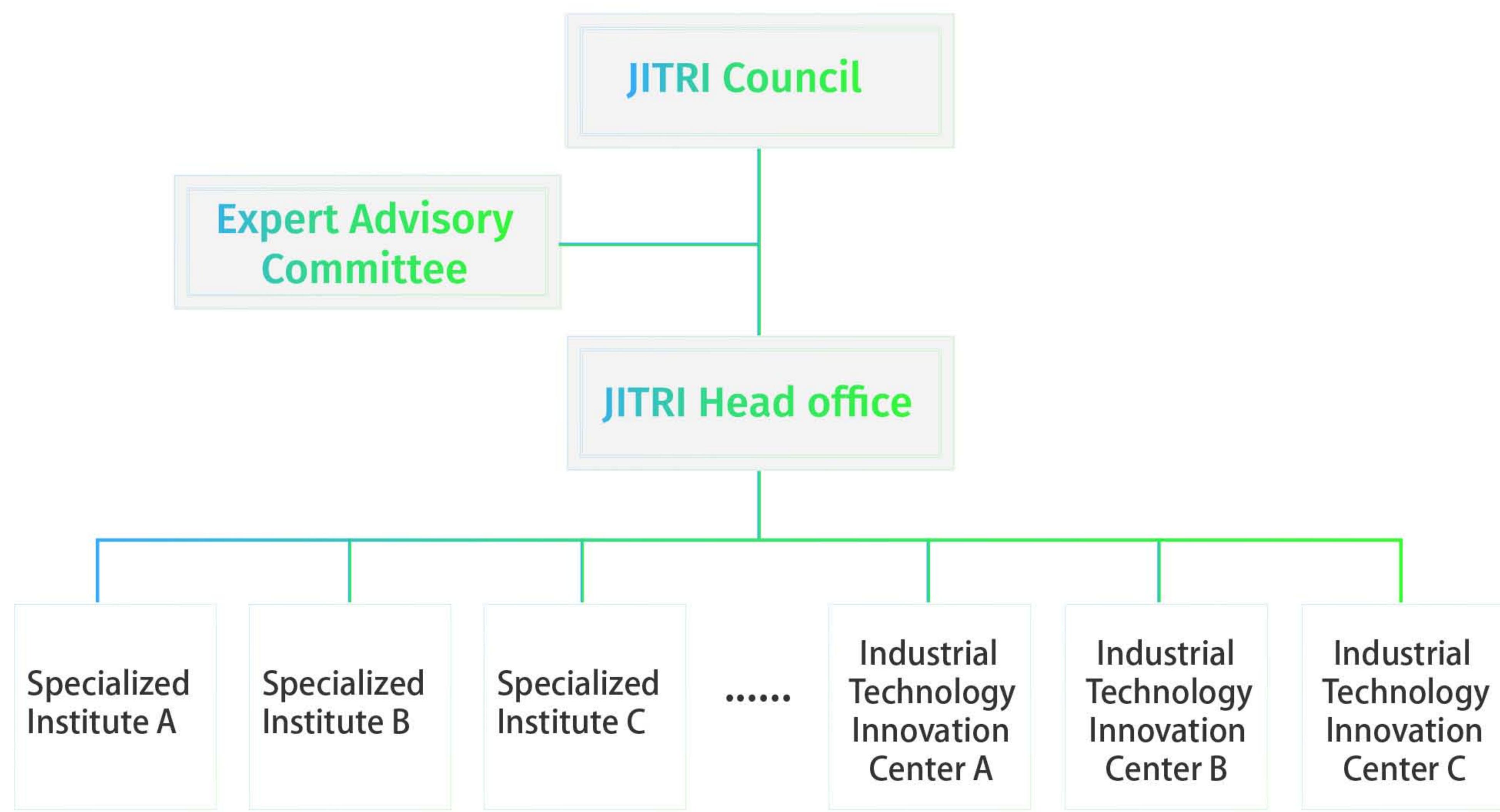
JITRI is aimed to be a top industrial technology research center in China that may further have significant influences in the world. It focuses on bridging the gap between fundamental technology research and their commercialization by taking on industrial technology researches where industries are incapable of, universities are unwilling to, and the government is unable to do so. It further focuses on researches that serve the needs stemming from economic structure transformation and the purposes of industrial innovation and market oriented product development.

So far, JITRI has 27 specialty research institutes and over 5,200 personnel, as well as about 500,000 m² of operating sites, US\$ 500 million of research facilities and annual R&D expenditure of about US\$ 300 million. There are nearly 1,000 technological outcome transferred and transformed by the various specialized research institutes. About 260 start-ups have been established, 17 of them have went public or about to go public. JITRI has established 6 provincial industrial technology innovation centers in the fields of nanotechnology, medical equipment, intelligent equipment, laser and optoelectronics, telecommunication and network, environmental-protection equipment, etc. JITRI has recruited 13 project managers and attracted nearly 200 world-class researchers and engineers globally.



A globe centre for
EXCELLENCE
in research and innovation

JITRI provides Financial support to the specialized institutes and the industrial technology innovation centers based on their performance.



ORGANIZATIONAL STRUCTURE

The President manages the overall operation of JITRI under the guidance of JITRI Council, including the management of staff, projects and funding, selection of new research institutes, business coaching and performance assessment for existing institutes, etc. Each specialized institute under the umbrella of JITRI can be an independent organization or a R&D enterprise. Specialized Institutes research activities will be market-oriented, and the research requirements come from the real-life applications and will be adopted by the enterprises and other organizations for practical applications.

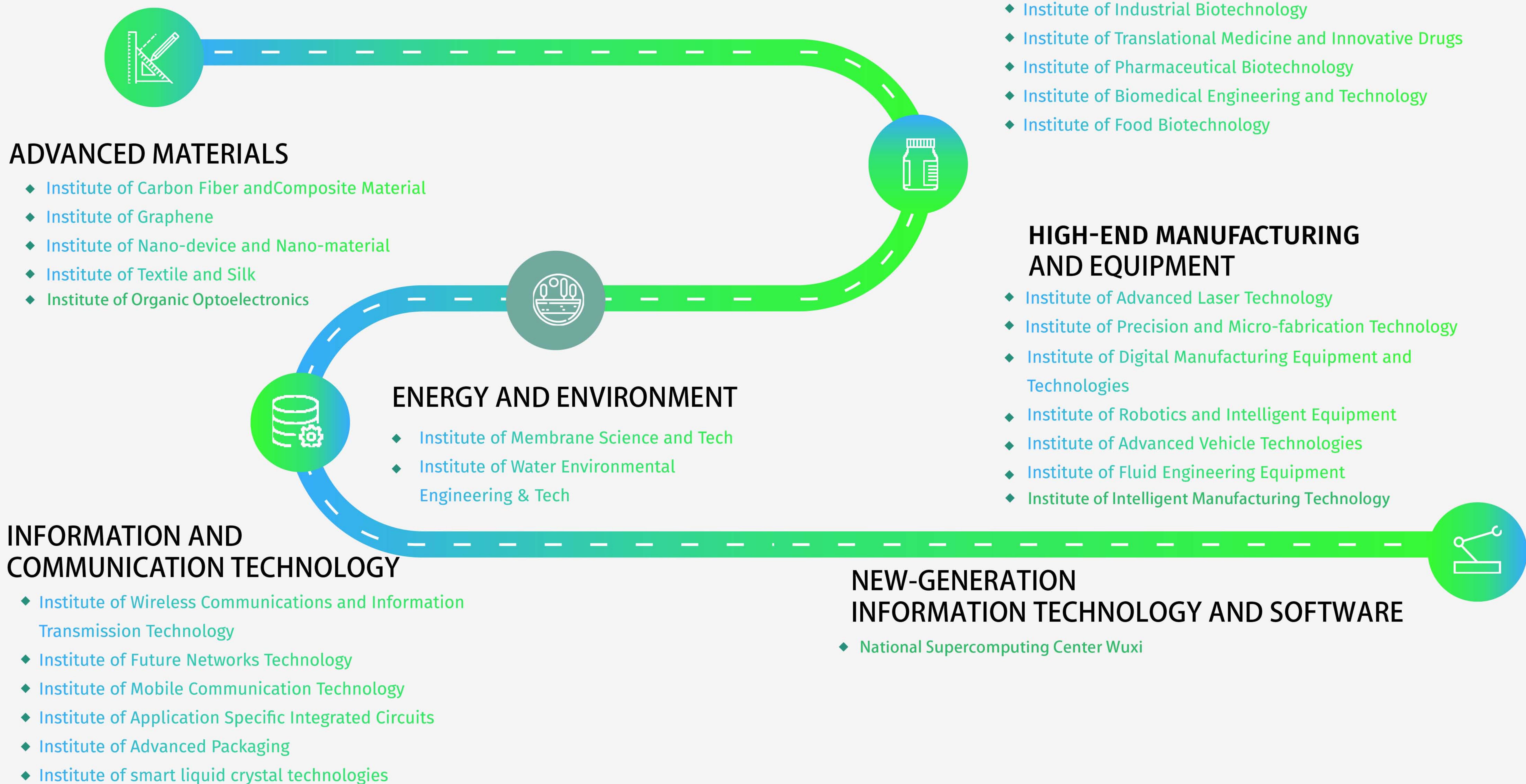
Industrial Technology Innovation Center is established as a new R&D organization, jointly supported by JITRI and local municipal government.



AMBITIONS

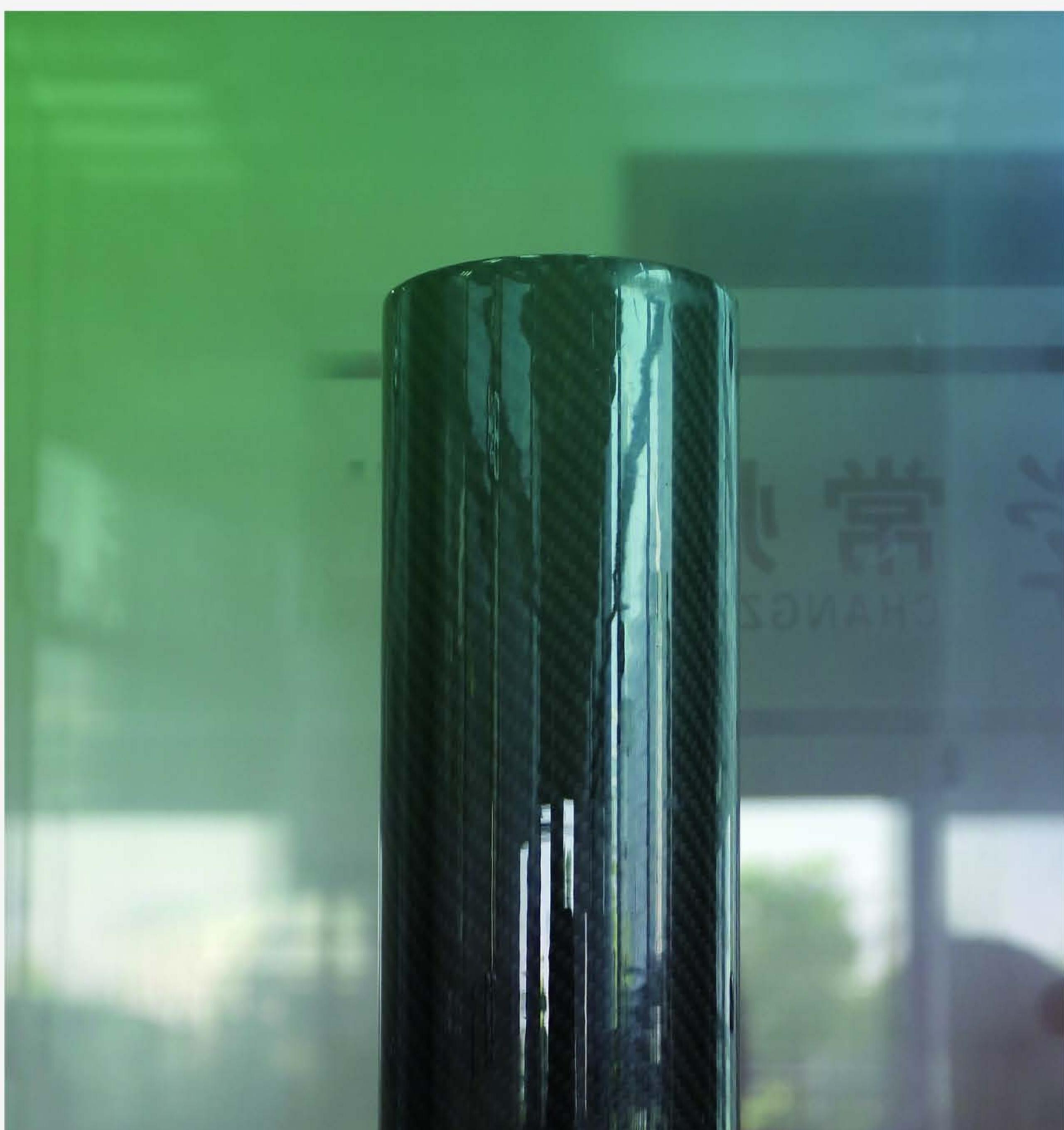
- A platform for development of the innovative achievements from the world
- Producing innovative technology for incubating start-ups or serving the enterprises

THE SPECIALIZED INSTITUTES



INSTITUTE OF CARBON FIBER AND COMPOSITE MATERIAL

Director: Lianghua Xu
Changzhou Institute of Advanced Materials, BUCT



Changzhou Institute of Advanced Materials (BCUT) was established in September 2008, which became a member institute of JITRI in January 2014 as Institute of Carbon Fiber and Composite Material. It is supported by Beijing University of Chemical Technology and Changzhou Science & Education Town. It now has a staff of 110 and more than 26,000 m² of lab and office space. The institute also has research equipment valuing more than RMB60 million, including TEM, SEM, HPLC, GC-MS, etc. The institute provided technical services for more than 200 enterprises. The annual R&D budget is about RMB 45 million.



Ms. Yun Li



Changwu Middle Ave., 18, A211

Changzhou

+86-519-69697503

bciam@mail.buct.edu.cn

<http://www.bciam.cn>

RESEARCH AREA

- ◆ Carbon fiber
- ◆ PI fiber
- ◆ Low temperature / high temperature aimed series of matrix resin
- ◆ UV resin
- ◆ Resin based carbon fiber composite
- ◆ PAN-based activated carbon fiber
- ◆ Mesophase pitch-based carbon fiber

INSTITUTE OF GRAPHENE

Executive Director: Ningzhong Bao
Jiangnan Graphene Research Institute

Jiangnan Graphene Research Institute was established in September 2011, which became a member institute of JITRI in December 2014 as Institute of Graphene. It is supported by Changzhou Municipal Government, Wujin District Government and Changzhou west Taihu Science and Technology Industrial Park Management Committee. It now has a staff of 108 and more than 14,000 m² of lab and office space. The institute also has research equipment of RMB 20 million, including SEM, Raman Spectrometer, BET specific surface instrument, electrochemical workstation, etc. The institute provided technical services for more than 30 enterprises. The annual R&D budget is about RMB 34 million.

RESEARCH AREA

- ◆ Industrialization of graphene film and powder
- ◆ Graphene preparation/production equipment
- ◆ Graphene detection technology and testing equipment
- ◆ Detection standards, product standards and safety standards of graphene materials and their derivatives
- ◆ Advanced carbon materials technology and commercial process
- ◆ Lithium ion energy storage
- ◆ Electrothermal membrane



Ms. Jingjing Yuan

No. 6 Xiangyun Road, WujinEconomical Development zone, Changzhou

+86-519-89809123

happyjj163@198.com

<http://www.jgri.gov.cn/>



INSTITUTE OF NANO-DEVICE AND NANO-MATERIAL

Director: Tong Li

Suzhou Nano-Tech Business Development Co., Ltd

Suzhou Nano-Tech Business Development Co. Ltd was established in January 2009, which became a member institute of JITRI in January 2014 as Institute of Nano-Device and Nano-Material. It is supported by Suzhou Institute of Nano-Tech and Nano-Bionics (SINANO), Chinese Academy of Sciences. It now has a staff of 40 and more than 12000 m² of lab and office space. The institute also has access and privilege in utilizing Nano-Fabrication, Characterization & Test, and Nano-BioChem platforms of SINANO, which hold the top notch facility in nano research fields. These lines include TEM, SEM, XRD, MOCVD, MBE, RIE, LPCVD-CALOGIC, ICP-MS, NMR, etc. The institute provided technical services for more than 340 enterprises. The annual R&D budget is about RMB 35 million.

RESEARCH AREA

- ◆ Nitride semiconductor materials and devices
- ◆ Nano functional and catalysis materials
- ◆ Nano-grid based ultra high sensitive terahertz mixing detectors and receivers
- ◆ In-situ testing and processing system for nano scale surface and interface
- ◆ High density energy storage materials and devices
- ◆ 3D printing and printed electronics equipment
- ◆ MEMS device design, fabrication, and packaging
- ◆ Novel display technology

Ms. Tingting Li

398 Ruoshui Rd, Industrial Park,
Suzhou
+86-512-62872982
ttli201@inadem.cn
<http://www.inadem.cn/>

INSTITUTE OF TEXTILES AND SILK

Director: Guoqiang Chen

Nantong Textile and Silk Industrial Technology Research Institute

Institute of Textile and Silk became a member institute of JITRI in January 2014. It established an independent legal entity named Nantong Textile and Silk Industrial Technology Research Institute in April 2015, which was supported by Soochow University and Nantong Bureau of Science and Technology. It now has a staff of 58 and more than 6,800 m² of lab and office space. The institute also has research equipment of RMB 26 million, including scanning electron microscopy, thermal protection performance tester, 3D body measuring instrument, etc. The institute provided technical services for more than 25 enterprises. The annual R&D budget is about RMB 34 million.

RESEARCH AREA

- ◆ Textile and garment system engineering and digitalization
- ◆ Ecological textile and dyeing and finishing
- ◆ Functional fiber materials and products
- ◆ Silk biological engineering and its comprehensive utilization
- ◆ Textile automation and equipment manufacturing



Dr. Kai Meng

7th Floor, Bldg.58, 1 Chongchuan Rd, Nantong.
+86-513-55018963
mk2009@suda.edu.cn
[http:// www.nttisu.com](http://www.nttisu.com)

INSTITUTE OF BIOMATERIALS AND MEDICAL DEVICES

Director: Zhongze Gu

Nanjing Institute of Biomaterials and Medical Devices-Southeast University

The Institute of Biomaterials and Medical Devices became a member institute of JITRI in January 2014. It established an independent legal entity named Nanjing Institute of Biomaterials and Medical Devices (Southeast University) in June 2015, which was supported by Southeast University and Jiangning Development Zone. The Institute now has a staff of 193 and more than 3700 m² of lab and office space. It also has research equipment of RMB 117 million, including High-throughput sequencing instrument, Femtosecond laser system, etc. The Institute provided technical services for more than 60 enterprises. The annual R&D budget is about 95 million.



RESEARCH AREA

- ◆ Biochips and Gene sequencing
- ◆ Instant Diagnosis and Personalized Medicine Equipment
- ◆ Biomaterials and Scaffolds
- ◆ Molecular Imaging Technology and Equipment

Prof. Feng Wang
No. 9, Mozhoudong Road, Jiangning District, Nanjing.
+86-25-522135880
wangfeng@i-bmd.org
<http://www.i-bmd.org>

INSTITUTE OF INDUSTRIAL BIOTECHNOLOGY

Director: Hanjie Ying

Nanjing Institute of White-Biotech Co. Ltd

The Institute of Industrial Biotechnology became a member institute of JITRI in January 2014. It established an independent legal entity named Nanjing Institute of White-Biotech Co. Ltd in October 2015, which was supported by Nanjing Tech University and Nanjing High-Tech Zone. The Institute now has a staff of 113 and more than 28,000 m² of lab and office space. It also has research equipment of RMB 94 million, including Microbiology breeding machine, High throughput screening platform, fermentator, Microplate reader, GC-MS, LC-MS, HPLC, FPLC, PCR instruments, High-speed Refrigerated Centrifuge, etc. The Institute provided technical services for more than 60 enterprises. The annual R&D budget is about 50 million.

RESEARCH AREA

- ◆ Microbiology High throughput screening platform
- ◆ Bio-manufacturing key technology platform
- ◆ Synthetic biology technology
- ◆ Biocatalyst immobilization technology
- ◆ Reaction microfluidic chip technology
- ◆ Process Integration and Equipment Technology



Prof. Yong Chen
No. 16, Gaoxin Road, Nanjing High-tech Zone, Nanjing.
+86-25-58139992
chenyong1982@njtech.edu.cn
<http://ncrb.njtech.edu.cn>

INSTITUTE OF TRANSLATIONAL MEDICINE AND INNOVATIVE DRUGS

Director: Jingwu Zang
Nanjing BioSciKin Co., Ltd

The Institute of Translational Medicine and Innovative Drugs (ITMID) was jointly founded in June 2013 by Simcere Pharmaceutical Co., Ltd. and Xu Zhuang Software Park. It now has a staff of 156 and more than 52000 m² of lab and office space. ITMID also has research equipment of RMB 145 million, including NMR spectrometer, HPLC-MS, Image Xpress Micro XLS, BD FACS Calibur, etc. In 2015, ITMID provided technical services for more than 60 enterprises and obtained R&D fund of RMB 40 million.

RESEARCH AREA

- ◆ Research of tumor biological markers
- ◆ Research and development of innovative drugs targeting tumor
- ◆ Tumor immunotherapy drug development
- ◆ Key technologies research of translational medicine and development
- ◆ Discovery and marketing of new biomarkers, companion diagnostics, medical wearables and sensors or e-health solutions related to precision diagnosis and treatment.

Dr. Feng Tang
No.18-699, Xuanwu Road, Nanjing
+86-25-85566666
tangfeng@bioscikin.com
<http://www.bioscikin.com>



INSTITUTE OF PHARMACEUTICAL BIOTECHNOLOGY

Director: Zichun Hua
High-Tech Research Institute of Nanjing University, Changzhou

High-Tech Research Institute of Nanjing University (Changzhou) was established in November 2006, which became a member institute of JITRI in January 2014 as Institute of Pharmaceutical Biotechnology. It is supported by Nanjing University and the government of Changzhou City. The institute now has a staff of 134 and more than 22,800 m² of lab and office space. It also has research equipment of RMB 200 million, including TSE PhenoMaster, LCMS2020, Isothermal Titration Calorimeters(MicroCal iTC200), High Speed Cell Sorter and Analyzer(MoFlo XDP), High Performance Liquid Chromatography(HPLC), Protein purification system, Confocal Laser Scanning Microscope (CLSM), RiboPrinte System, Polymerase Chain Reaction(PCR), etc. The institute provided technical services for more than 20 enterprises. The annual R&D budget is about 69 million.



RESEARCH AREA

- ◆ New targets and innovative drug research
- ◆ New Technology study drug
- ◆ Drug research support services system

Dr. Jiahuang Li
No. 163 , Xianlin Road, Qixia District ,Nanjing.
+86-519-86339988
lijh8075 @sina.com
<http://www.njucz.cn>

INSTITUTE OF BIOMEDICAL ENGINEERING AND TECHNOLOGY

Director: Yuguo Tang

Suzhou Guoke medical technology development Co., LTD



Suzhou Guoke medical technology development Co., LTD was established in June 2013, which became a member institute of JITRI in September 2015 as Institute of Biomedical Engineering and Technology. It is supported by Chinese Academy of Sciences Suzhou Institute of Biomedical Engineering and Technology. The institute now has a staff of 125 and more than 6000 m² of lab and office space. It also has research equipment of RMB 200 million, including Universal Tool Milling and Precision lathe, etc. The institute provided technical services for more than 30 enterprises. The annual R&D budget is about 125 million.

RESEARCH AREA

- ◆ Medical Optical Technology
- ◆ Bio-medical inspection technology
- ◆ Medical Imaging Technology
- ◆ Rehabilitation Medicine Technology

Mr. Chenyu Jiang

No. 88, Keling Road, Suzhou High-tech Zone, Suzhou.

+86-512-69588096

jiangcy@sibet.ac.cn

<http://www.sibet.ac.cn>

INSTITUTE OF FOOD BIOTECHNOLOGY

Director: Zhiming Rao

Jiangnan University Institute of Food Biotechnology -Rugao

Jiangnan University Institute of Food Biotechnology -Yangzhou

Institute of Food Biotechnology became a member institute of JITRI in January 2014 . It established two independent legal entities named Jiangnan University Institute of Food Biotechnology (Rugao) in October 2015 and Jiangnan University Institute of Food Biotechnology (Yangzhou) in May 2016 .Itis supported respectively by the government of Rugao City and the government of Yangzhou City. The institute now has a staff of 164 and more than 12,800 m² of lab and office space. It also has research equipment of RMB 25 million, including the pilot plant for cereal deep processing, the pilot plant of ton-scale fermentation, etc. The institute provided technical services for more than 210 enterprises. The annual R&D budget is about 115 million.

RESEARCH AREA

- ◆ Functional food biomanufacturing
- ◆ Fermented food advanced manufacturing
- ◆ Grain and starch deep processing green technology
- ◆ Oil and protein functional modification
- ◆ Aquatic products deep processing



Prof. Zhiming Rao

No. 89 Dingxing Road, Yangzhou, Jiangsu

+86-514-87560381

raozhm@jiangnan.edu.cn

<http://www.jurfbri.com>

INSTITUTE OF MEMBRANE SCIENCE AND TECHNOLOGY

Director: Weihong Xing

Nanjing Membrane Industrial Technology Research Institute Co., Ltd

Nanjing Jiusi High-Tech Co., Ltd

Nanjing Jiusi High-Tech Co., Ltd was established in February 2002, and Nanjing Membrane Industrial Technology Research Institute Co., Ltd was established in February 2011. They became a member institute of JITRI in January 2014 as Institute of Membrane Science and Technology. The institute is supported by Nanjing Tech University and Pukou District. It now has a staff of 79 and more than 13,800 m² of lab and office space. The institute also has research equipment of RMB 61 million, including Broadband Dielectric Spectrometer, Nanoindentation, FESEM, Vacuum extrusion molding machine, MALDI-TOF-MS, PAV/PVA membrane equipment for vapour-permeation and pervaporation systems, etc. The institute provided technical services for more than 30 enterprises. The annual R&D budget is about RMB 65 million.

RESEARCH AREA

- ◆ Development of high-performance ceramic membranes, pervaporation membranes, gas separation membranes, polymeric membranes, organic/inorganic composite membranes, etc.
- ◆ Development of membrane integrated technologies and equipments including membrane reactor, waste water utilization, exhaust gas purification



Prof. Baitao Guo

1 Yuansi Road, Pukou District, Nanjing

+86-25-81372288

mst@njtech.edu.cn

<http://www.jitri-mst.com/>



INSTITUTE OF WATER ENVIRONMENTAL ENGINEERING & TECHNOLOGY(YANCHENG)

Director: Aimin Lee

Nanjing University & Yancheng Academy of Environmental Protection Technology & Engineering

Nanjing University & Yancheng Academy of Environmental Protection Technology & Engineering was established in July 2011, which became a member institute of JITRI in January 2016. It is supported by Nanjing University and the People's Government of Yancheng Municipal. It now has a staff of 151 and more than 14,300 m² of lab and office space. The institute also has research equipment of RMB 53 million, including high performance liquid chromatograph(HPLC), gas chromatograph, gas chromatography-mass spectrometry(GC-MS), gel permeation chromatography(GPC), fluorescence spectrophotometer, atomic absorption spectrophotometer(AAS), total organic carbon(TOC) analyzer, UV spectrophotometer, etc. The institute provided technical services for more than 70 enterprises. The annual R&D budget is about RMB 40 million.

RESEARCH AREA

- ◆ Treatment and recycling of high concentration organic wastewater
- ◆ New environment functional materials
- ◆ Whole process control of biological toxicity in treatment of toxic pollutants
- ◆ Advanced treatment and reuse of wastewater
- ◆ Advanced purification of drinking water
- ◆ VOCs removal and recovery from organic waste gases
- ◆ Comprehensive assessment and control of pollution in chemical industry parks
- ◆ Emergency disposal of water pollution accidents

Dr. Jinnan Wang

Block E, Zhongchuang Center,
Huanbao Avenue, Tinghu District,
Yancheng

+86-515-66693606

wjnnju@163.com

<http://www.nyaete.com>



INSTITUTE OF WATER ENVIRONMENTAL ENGINEERING & TECHNOLOGY (YIXING)

Director: Hongqiang Ren

Yixing Environmental Protection Research Institute of Nanjing University

Jiangsu Zhongyijinda environmental protection Industrial Technology Research Institute Co., Ltd

Yixing Environmental Protection Research Institute of Nanjing University was established in October 2006, and Jiangsu Zhongyijinda environmental protection Industrial Technology Research Institute Co., Ltd was established in December 2012. They became a member institute of JITRI in January 2014 as Institute of Water Environmental Engineering & Technology (Yixing). The institute is supported by Nanjing University and China Yixing Industrial Park for Environmental Science & Technology. It now has a staff of 144 and more than 11,000 m² of lab and office space. The institute also has research equipments with a total value of RMB 107 million, including DNA Sequence analyzer, liquid chromatograph-mass spectrometer, inductively coupled plasma mass spectrometry and atomic force microscope, etc. The institute provided technical services for more than 100 enterprises. The annual R&D budget is about RMB 60 million.

RESEARCH AREA

- ◆ Foresightedness technology of water treatment
- ◆ High-Tech of Water treatment industry
- ◆ New material for high performance water treatment
- ◆ Standardization of water treatment equipment
- ◆ Development strategy of Water pollution control and resource oriented industry

Dr. Hui Huang

Environmental Protection Building A,
N.O.501Lvyuan Road, Environmental
Science and Technology Park, Yixing.
 +86-510-87078300
 envhuang@163.com
 <https://yzhbmall.1688.com>
 <http://www.yz-ec.com>

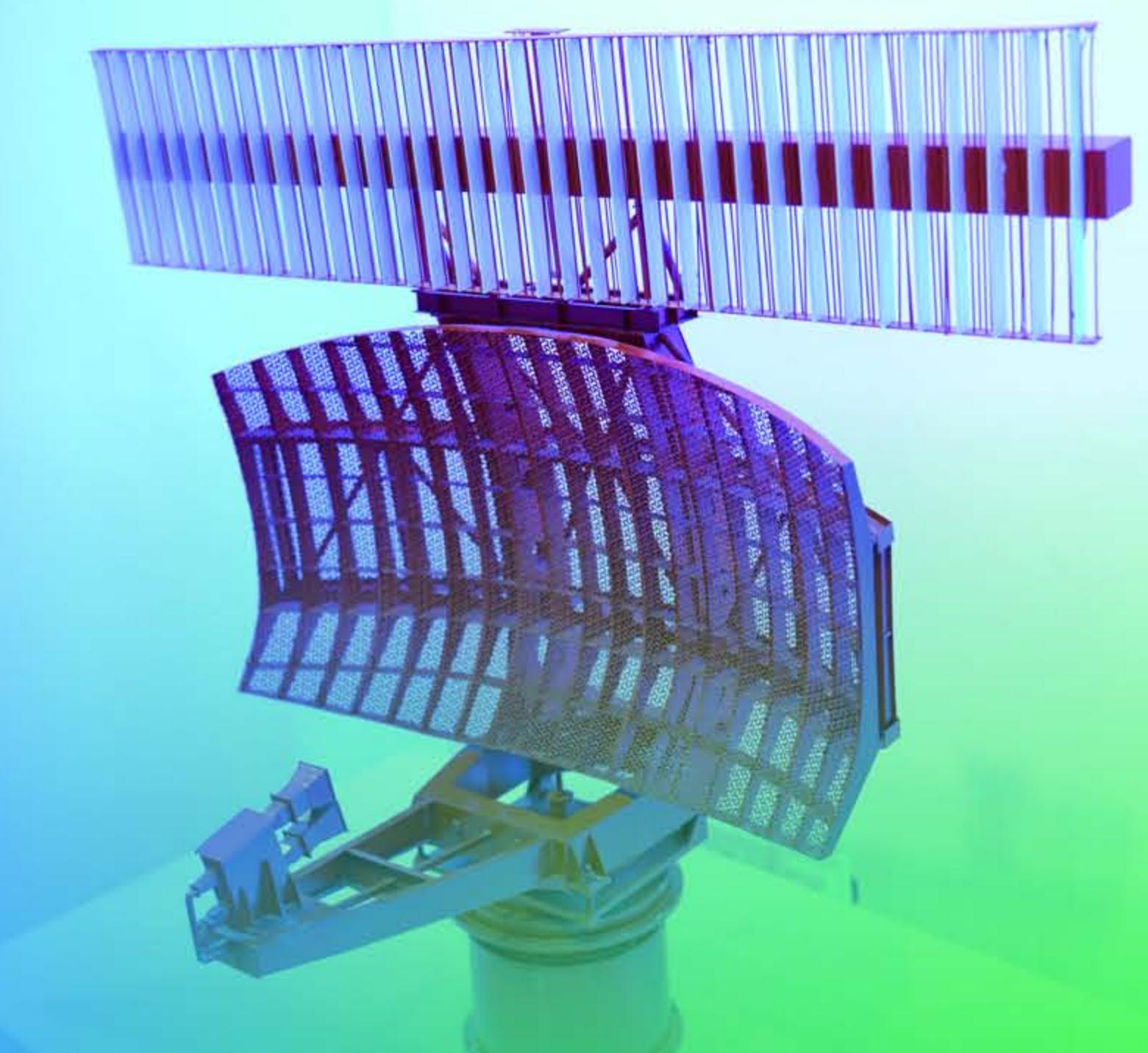
INSTITUTE OF WIRELESS COMMUNICATION AND INFORMATION TRANSMISSION TECHNOLOGY

Director: Zhipeng Zhou

Located in world historical city of Nanjing, the Institute of Wireless Communication and Information Transmission Technology has been a member institute of JITRI since Jan2014. It was supported by national key laboratory of China Electronics Technology group Corporation (CETC). Up to now, the institute has a staff of 145. Focusing on information and telecom industry, the institute has provided technical services for almost 10enterprises in 2015. And annual R&D fund reached 63million RMB.

RESEARCH AREA

- ◆ Multi-sensor cooperative technology
- ◆ Millimeter wave and Terahertz Applications
- ◆ 5G mobile communication wireless transmission applications
- ◆ Public information security platform



Mr. Hua Wang

Guorui mansion, No.359 of Jiangdong middle road,
 Jianye District, Nanjing.
 +86-25-51829000
 qychb163@2240.com
 <http://www.glarun.com>

INSTITUTE OF FUTURE NETWORKS TECHNOLOGY

Director: Yunjie Liu
Jiangsu Future Networks Innovation Institute

Jiangsu Future Networks Innovation Institute was established in November 2011, which became a member institute of JITRI in September 2015 as Institute of Future Networks Technology. It is supported by the government of Nanjing City and Jiangning Development Zone. It now has a staff of 337 and more than 15,000 m² of lab and office space. The institute also has research equipment of RMB 17 million, including routing and switching system, etc. In 2015, the institute provided technical services for more than 100 enterprises. And the annual R&D fund reached RMB 57 million.

RESEARCH AREA

- ◆ Main equipment and system of SDN/NFV
- ◆ Network resources intelligent dispatching management platform
- ◆ Network measurement and big data applications
- ◆ Network security



● Mr. Quansong Bao
Jiangning District Mo Zhou Dong Lu No.12, Nanjing.
+86-25-57926618
baoquansong@fnii.cn
<http://www.fnii.cn>

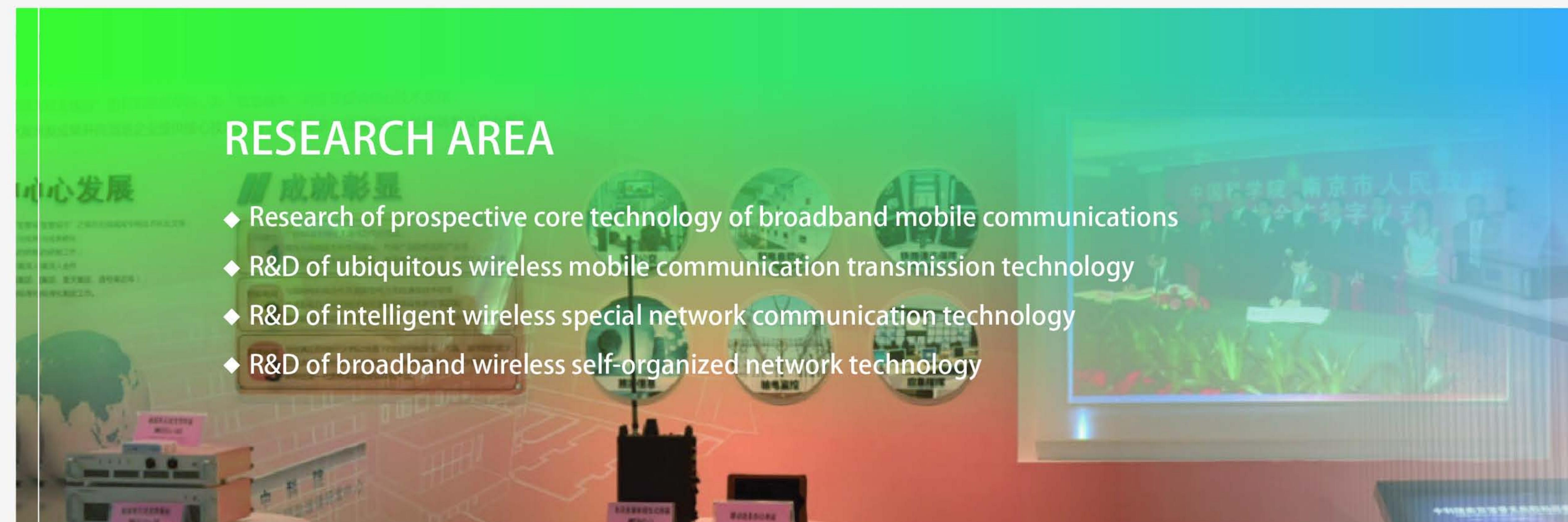
INSTITUTE OF MOBILE COMMUNICATION TECHNOLOGY

Director: Zhiyong Pu
R & D Center of Broadband Wireless Mobile Communications

Institute of Mobile Communication Technology was established in December 2009, which became a member institute of JITRI in September 2015. The institute is supported by Shanghai Institute of Microsystem and Information Technology (SIMIT), Chinese Academy of Sciences (CAS), Southeast University and Nanjing Jiangning Development Zone. It is aiming to gather top specialists and leading enterprises in the field of Communication, breakthrough core technology of broadband mobile communication, and to promote the development of Communication. Up to now, the institute has more than 111 employees and established an open R&D platform with 10000 m² office space and R&D equipments worth 80 million RMB. The institute has provided technical services to more than 20 enterprises. And annual R&D fund is almost 100 million RMB.

RESEARCH AREA

- 成就彰显
- ◆ Research of prospective core technology of broadband mobile communications
 - ◆ R&D of ubiquitous wireless mobile communication transmission technology
 - ◆ R&D of intelligent wireless special network communication technology
 - ◆ R&D of broadband wireless self-organized network technology



● Mr. JinSheng Yao
Wireless park, No.9 of Mozhou east road of Jiangning District, Nanjing.
+86-25-87739883
<http://www.njwico.com>

INSTITUTE OF APPLICATION SPECIFIC INTEGRATED CIRCUITS

Director: Longxing Shi

Wuxi Institute of Integrated Circuits Technology- Southeast University

The Institute of Application Specific Integrated Circuits became a member institute of JITRI in January 2014. It established an independent legal entity named Wuxi Institute of Integrated Circuits (Southeast University) in January 2015, which was supported by Southeast University and Wuxi High-Tech Zone. It now has a staff of 177 and more than 17000 m² of lab and office space. The Institute also has research equipment of RMB 60 million, including Cascade prober and Thermo stream system etc. In 2015, The Institute provided technical services for more than 60 enterprises. The annual R&D budget is almost RMB 26 million.

RESEARCH AREA

- ◆ High performance computing SoC
- ◆ Intelligent power integrated circuits
- ◆ Key devices for Internet of Things

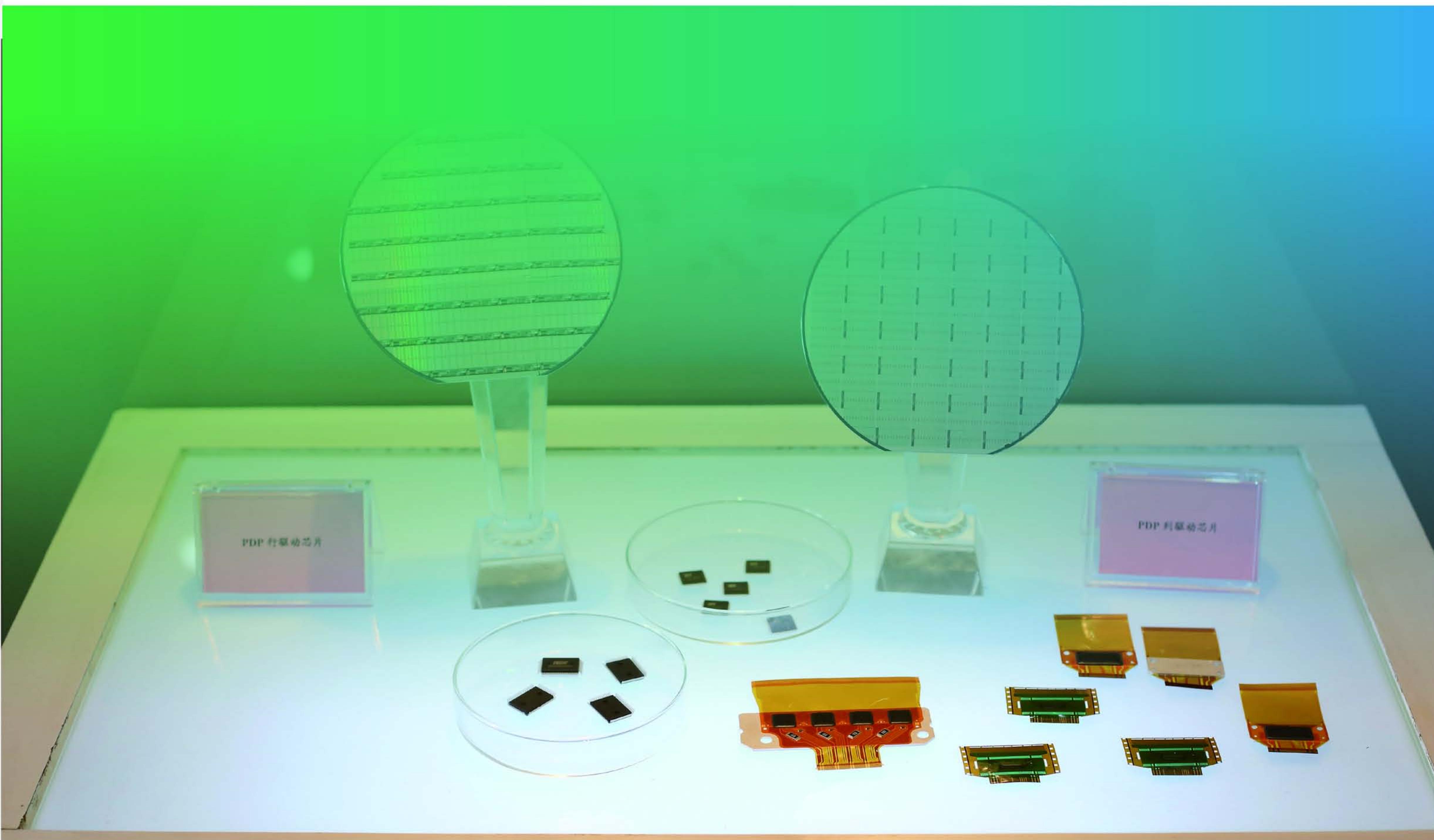
Prof. Shengli Lu

No.99, Linhu Avenue, New district, Wuxi

+86-510-85382250

asictri@asictri.com

<http://www.asictri.com>



INSTITUTE OF ADVANCED PACKAGING

Director: Liqiang Cao

National Center for Advanced Packaging Co., Ltd

Jiangsu Future Networks Innovation Institute was established in November 2011, which became a member institute of JITRI in September 2015 as Institute of Future Networks Technology. It is supported by the government of Nanjing City and Jiangning Development Zone. It now has a staff of 337 and more than 15,000 m² of lab and office space. The institute also has research equipment of RMB 17 million, including routing and switching system, etc. In 2015, the institute provided technical services for more than 100 enterprises. And the annual R&D fund reached RMB 57 million.



RESEARCH AREA

- ◆ Chip Package & system design and simulation and testing technology;
- ◆ Wafer-level bumping and FC assembly technology;
- ◆ 2.5D / 3D integrated packaging technology;
- ◆ Wafer-level packaging and fan-out packaging technology;

Mr. Sun Peng

Building D1, China Sensor Network International Innovation Park, 200 Linghu Boulevard, Wuxi

+86-510-66679336

pengsun@ncap-cn.com

<http://www.ncap-cn.com>

INSTITUTE OF SMART LIQUID CRYSTAL TECHNOLOGIES

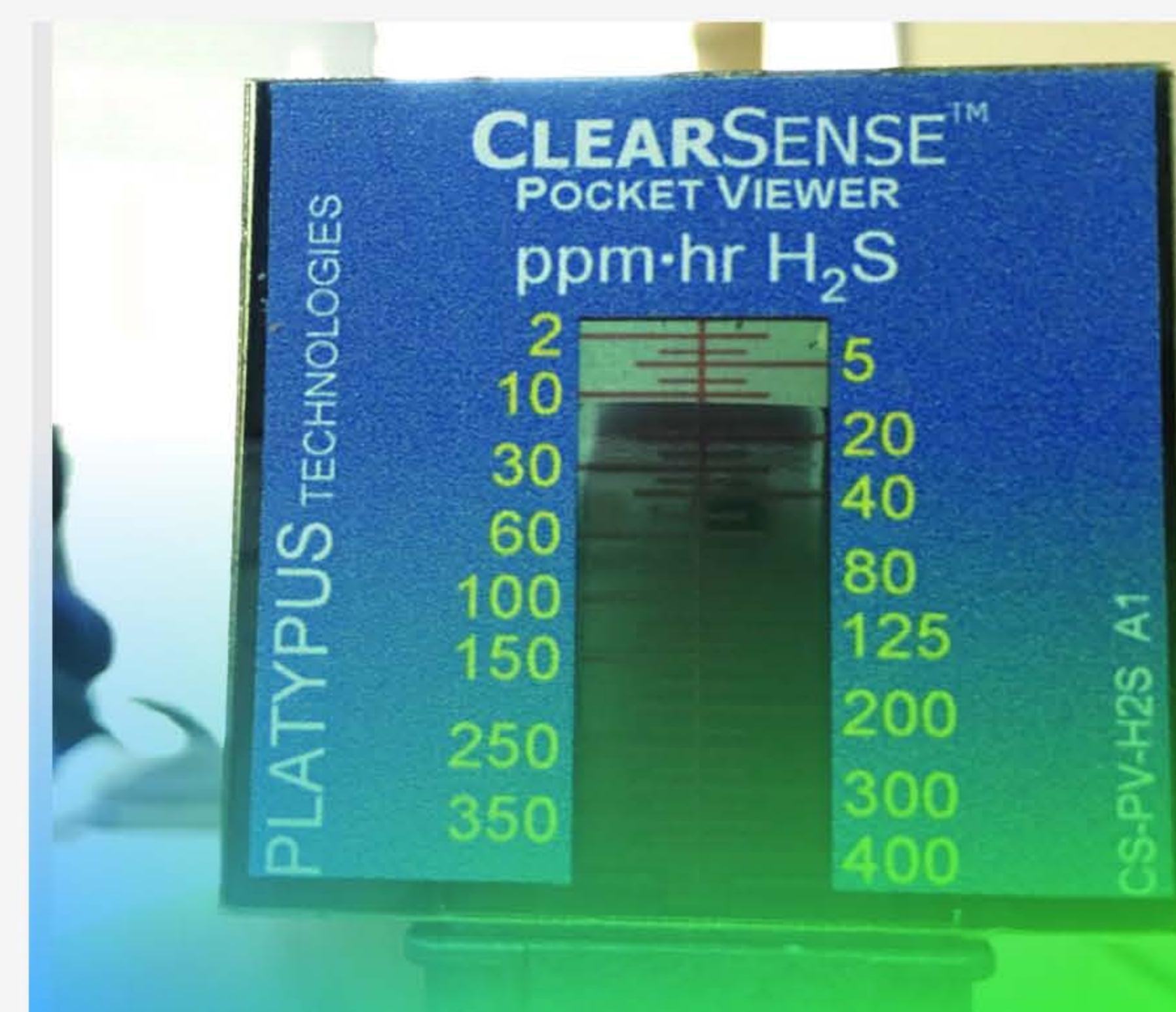
Director: Jiuzhi Xue

Jiangsu Jitri Smart Liquid Crystal Technology Co.,Ltd

Located in the beautiful and historical city of Changshu, the Institute of Smart Liquid Crystal Technologies (ISLCT) was established in April 2016 and is a member institute of JITRI. Well-funded and fully supported by the city government of Changshu and JITRI, ISLCT is an open platform with over 13,000 m² in lab and office space and has a fund that is over 100 million RMB for R&D equipment. It engages in industrial and applied liquid crystal technology research and development as well as incubation of high tech companies in primarily non-display related applications. Today, it has attracted some of the most well-known liquid crystal scientists and technologists and is in discussion with over 10 entrepreneurs for joint efforts in commercializing relevant technologies or products in the field.

RESEARCH AREA

- ◆ Smart windows
- ◆ Chemical and biochemical sensors
- ◆ Smart and composite liquid crystal materials
- ◆ Electro-optic and photonic liquid crystal devices
- ◆ Materials for next generation displays



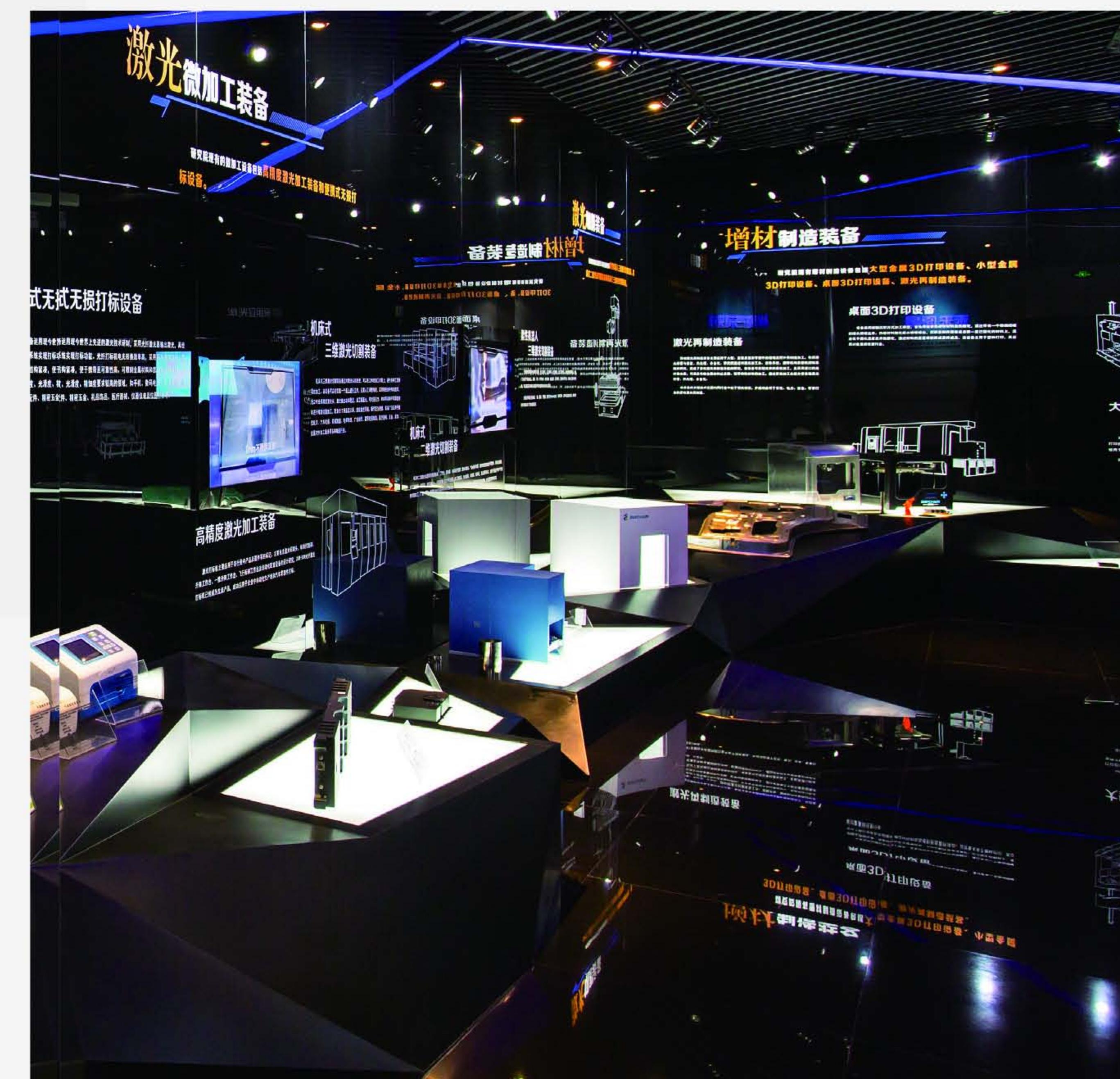
● Dr. Tianshi Yu
No. 128, Huangpujiang Road, Changshu
+86-13358117117
yutsh@126.com

INSTITUTE OF ADVANCED LASER TECHNOLOGY

Director: Weibiao Chen

Nanjing Institute of Advanced Laser Technology

Nanjing Institute of Advanced Laser Technology was established in June 2012, which became a member institute as Institute of Advanced Laser Technology of JITRI in April 2015. It is supported by Shanghai Institute of Optics and Fine Mechanics, Chinese Academy of Sciences and Nanjing Economic and Technological Development Zone. The institute now has a staff of 120 and more than 40,000 m² of lab and office space. It also has research equipment of RMB 60 million, including Laser Metal Deposition Equipment, Flexible Intelligent Remanufacturing Equipment, Flexible 3D Laser Cutting System, Picosecond Laser Precision Micro-machining Platform, etc. The institute provided technical services for more than 60 enterprises. The annual R&D budget is about RMB 150 million.



RESEARCH AREA

- ◆ Advanced all solid-state laser technology
- ◆ Laser equipment and machining technology
- ◆ Fine biological detecting technology
- ◆ Instrumentation of laser detection and sensing systems
- ◆ Research of laser display components and systems
- ◆ Applications of unmanned aerial vehicle

● Ms. Xu Qianfang
Block A, Think Science Park, Nanjing Economic and Technological Development Zone, Nanjing
+86-25068037568
xuqianfang@siom.ac.cn
<http://www.nialt.com>

INSTITUTE OF PRECISION AND MICRO-FABRICATION TECHNOLOGY

Director: Laishui Zhou

The Institute of Precision and Micro-Fabrication Technology became a member institute of JITRI in January 2014. It established an independent legal entity named Institute of Precision and Micro-Fabrication Technology in 2016 which was supported by Nanjing University of Aeronautics & Astronautics and Nanjing PuKou Economic Developing Zone. The institute now has a staff of 113 and more than 18,000 m² of lab and office space. It also has research equipment of RMB 63 million, including nanometer multilayer structure cBN/GNCD cutting tool coating toughening equipment, etc. The institute provided technical services for more than 150 enterprises. The annual R&D budget is about RMB 69 million.



RESEARCH AREA

- ◆ High-performance non-traditional manufacturing technology
- ◆ High-efficient precision machining technology
- ◆ Advanced materials forming technology
- ◆ Metal micro structure manufacturing technology
- ◆ Intelligent manufacturing technology

Dr. Jianbin Xue

No. 29, Yudao Street, (210016) Nanjing, China.
+86-25-84892580
JIT_CMEE@nuaa.edu.cn

INSTITUTE OF DIGITAL MANUFACTURING EQUIPMENT AND TECHNOLOGIES

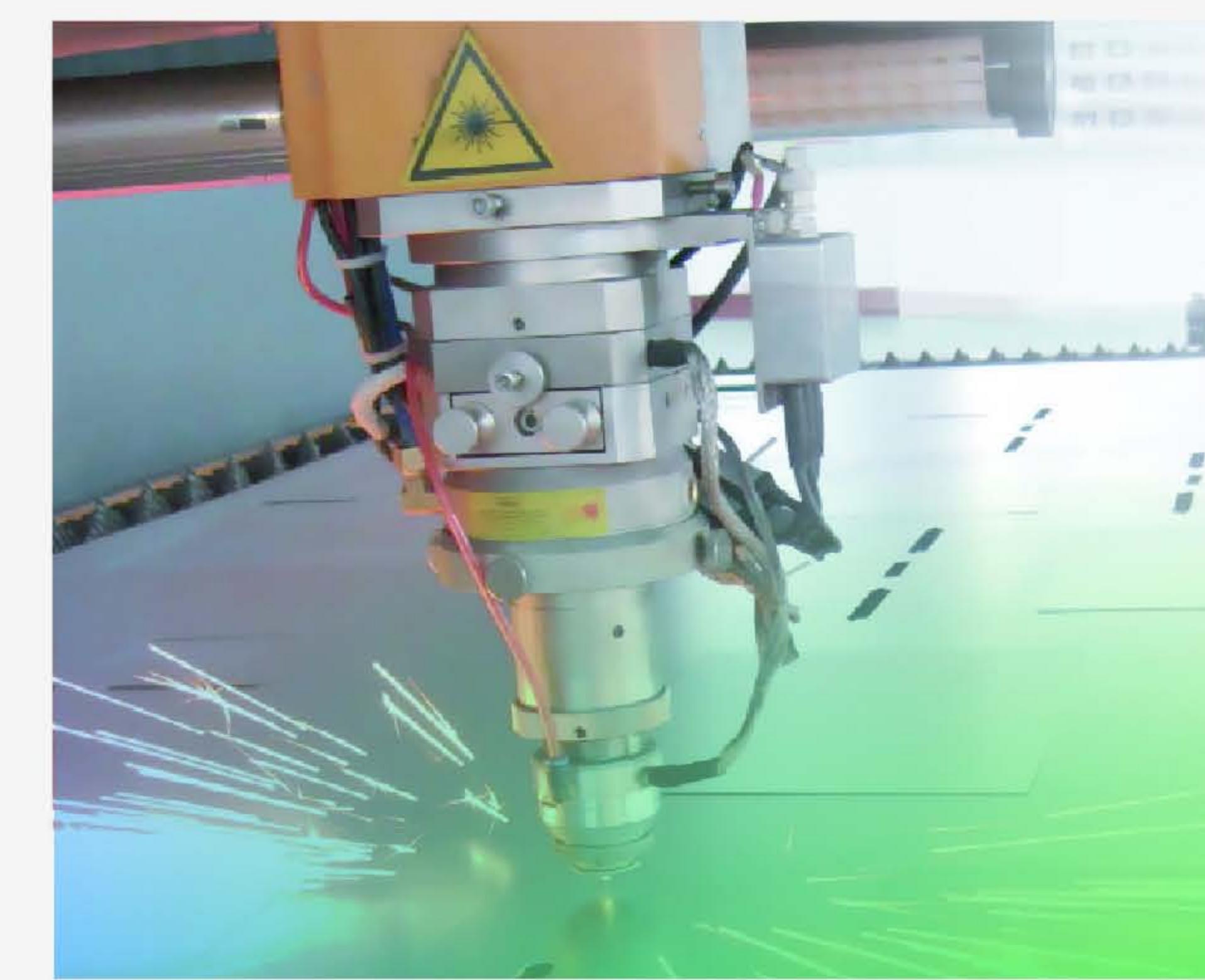
Director: Han Ding

HUST-Wuxi Research Institute

HUST-Wuxi Research Institute was established in October 2012, which became a member institute as Institute of Digital Manufacturing Equipment and Technologies of JITRI in October 2015. It is supported by Huazhong University of Science and Technology and the Government of Wuxi City. The institute now has a staff of 131 and more than 24,300 m² of lab and office space. It also has research equipment of RMB 23 million, including STARRAG -5axis Boring and Milling Machine Center, LIECHTI-5axis Boring and Milling Machine Center, FARLEY 6 kw-Fiber Laser Precision Processing System, Laser Rapid Prototyping System, WENZEL Three-coordinate Measuring Machine, etc. The institute provided technical services for more than 60 enterprises. The annual R&D budget is about RMB 71 million.

RESEARCH AREA

- ◆ High efficient and precision processing technology
- ◆ Intelligent control technology of equipment
- ◆ Automation systems technology in Intelligent manufacturing



Dr. Jinfeng Ding

Add: 2 Qingyan Road, Huishan District, Wuxi City, Jiangsu Province, 214174
Tel: +86-510-68793010
Web: http://www.hust-wuxi.com

INSTITUTE OF ROBOTICS AND INTELLIGENT EQUIPMENT

Director: Rongchuan Wang

Changzhou Advanced Manufacturing Technology Research Institute

The Institute of Robotics and Intelligent Equipment (IRIE) was jointly founded in January 2007 by the Hefei Institutes of Physical Science, Chinese Academy of Sciences (CASHIPS) and Changzhou City Government. It now has a staff of 283 and more than 10,800 m² of lab and office space. IRIE also has research equipment of RMB 58 million, including DIXI JIG 700 precision jig boring machine, Studer S40 universal internal and external cylindrical grinding machine, HSM600U five-axis linkage high speed machining center, PLANOMAT HP 612 precision plane forming grinding machine, HARDINGE 51/8 precision turning center, ZEISS PRISMO coordinate measuring machine, Talyrond Hobson surface coarseness profiling instrument, Talyrond 365 roundness measuring instrument, Object three dimensional rapid prototyping machine, Zoller tool measuring instrument, XL 80 laser interferometer, humanoid robot, service robot for the elderly, next-generation redundant two-armed robot, exoskeleton robot, dSPACE real-time simulation platform, SICK laser radar, etc. In 2015, IRIE provided technical services for more than 258 enterprises and obtained R&D fund of RMB 30 million.

RESEARCH AREA

- ◆ Robotics
- ◆ Intelligent Equipment
- ◆ Motion Control
- ◆ Mechatronics
- ◆ Machine Vision
- ◆ Virtual Prototyping
- ◆ Precision Manufacturing
- ◆ Intelligent Materials



Dr. Peng Sun

Add: No801, Changwu Middle Road,
Huihong Building, Changzhou, Jiangsu
Province, 213164
Tel: +86-519-86339079
Web: <http://www.iamt.cas.cn>



INSTITUTE OF ADVANCED VEHICLE TECHNOLOGIES

Director: Cheng Bo

Tsinghua Suzhou Automotive Research Institute

Tsinghua Suzhou Automotive Research Institute was established in July 2011, which became a member institute as Institute of Advanced Vehicle Technologies of JITRI in April 2015. It is supported by Tsinghua University and the government of Suzhou City. The institute now has a staff of 220 and more than 68300 m² of lab and office space. It also has research equipment of RMB 100 million, including automotive semi-anechoic chamber, wheel hub test bench, engine & transmission test frame, static test equipment for child safety, high strain test machine, etc. The institute provided technical services for more than 100 enterprises. The annual R&D budget is about RMB 179 million.

RESEARCH AREA

- ◆ New Energy Vehicle
- ◆ Intelligence & Internet of Vehicle (IoV)
- ◆ Automotive Emission purification
- ◆ Automotive NVH
- ◆ Automotive Power-train Systems
- ◆ Automotive Lightweight
- ◆ Vehicle Safety (Intelligent Safety & Passive Safety)
- ◆ Intelligence & Big Data for Traffic & Logistics

Dr. Feng Zhao

Tsinghua Suzhou Automotive Research Institute
Park, No. 139, Lianyang Rd., Wujiang, Suzhou
+86-18018108803
zhaofeng@tsinghua.edu.cn
<http://www.t-sari.com>

INSTITUTE OF FLUID ENGINEERING EQUIPMENT

Director: Shouqi Yuan
Institute of Fluid Engineering Equipment

The Institute of Fluid Engineering Equipment became a member institute of JITRI in January 2014. It established an independent legal entity named Institute of Fluid Engineering Equipment in October 2015, which was supported by Jiangsu University and Zhenjiang Economic and Technological Development Zone. The Institute now has a staff of 53 and more than 10,000 m² of lab and office space. It also has research equipment of RMB 100 million, including Test rig for pumps at extreme operating conditions, Four quadrant operation test rig, Test loop of pump noise and vibration, Test rig for pumps with gas-liquid two-phase flow, 3D-PIV System, High Speed Camera System, etc. The Institute provided technical services for more than 60 enterprises. The annual R&D budget is about RMB 32 million.

RESEARCH AREA

- ◆ Optimization Design and Development of Fluid Machinery
- ◆ Inner Flow in Fluid Machinery
- ◆ Water-Saving Irrigation Technology and Equipment
- ◆ Pump Model Development and System Optimization of Pumping Stations
- ◆ Energy-Saving and Stable Running of Pump Systems
- ◆ Artificial Heart Pump and Heart Valve



● Ms. Ping Huang

● No.99 Longitude 15Road, Zhenjiang Economic and Technological Development Zone, Zhenjiang

● +86-511-88780280

● ltzx1@ujs.edu.cn

● <http://ltzx.ujs.edu.cn/pub/eng/>

INSTITUTE OF ORGANIC OPTOELECTRONICS

Director: LeeShuit-Tong
JITRI Institute of Organic Optoelectronics Co., Ltd

Located in Suzhou city, the Institute of Organic Optoelectronics was established in July 2016. With full support of JITRI and district government of Wujiang, the institute has 30,000 m² size of laboratory and office, 100 million RMB valuable science instruments and Manufacturing equipment. It attracts talents from all over the world. At least 20 members of world extraordinary experts of Organic Optoelectronics Science & industry have already joined the team, including several Academicians from CAS (Chinese Academy of Sciences) and overseas. The target is to become a world-class research & development center in the area of organic optoelectronics technology.

RESEARCH AREA

- ◆ Functional Molecular Materials
- ◆ Devices for OLED Display and Lighting
- ◆ Flexible Electronics and Encapsulation Materials
- ◆ FINiche Organic Optoelectronic Devicesflexible Electronics and Encapsulation Materials
- ◆ Analytical Instruments for Organic Optoelectronics
- ◆ Manufacturing Equipment for the Fabrication of Organic Optoelectronic Deviceslytical Instruments for Organic Optoelectronics



● Liang-Sheng Liao

● No. 1198, Fenhudadao Avenue, Wujiang, Suzhou, Jiangsu Province.

● +86 15995726527

● lsliao@suda.edu.cn

● <http://www.glarun.com>

INSTITUTE OF INTELLIGENT MANUFACTURING TECHNOLOGY (IIMT)

Director: MinZhou Luo

JITRI Institute of Intelligent Manufacturing Technology Co.,Ltd

The Institute of Intelligent Manufacturing (IIMT) was founded in August 2016 and supported by the Nanjing Jiangbei New Area city government and JITRI. IIMT is an open platform with over 20,000m² in lab and office and has a fund of 100 million RMB for R&D equipment. It aims to improve the intelligent manufacturing technologies in Jiangsu Province. The institute provides technical services for small-medium sized enterprises to help them solve critical technical issues. Its research activities will be market-oriented and the research requirements come from the real-life applications. It has more than 30 scientists, technologists and entrepreneurs.

RESEARCH AREA

- ◆ Digital Factory Technology (DFT)
- ◆ Intelligent Equipment Technology (IET)
- ◆ Manufacturing Executive System (MES)



NATIONAL SUPERCOMPUTING CENTER WUXI

Director: Yang Guangwen

New-generation Information Technology and Software

JITRI, Wuxi Municipal Government and Tsinghua University, jointly built National Supercomputing Wuxi Center. The research institute has a R&D Building of 35,000 m² and total assets of RMB 1.1 billion. It is dedicated to enhancement of national technology innovation capability and solving of major scientific issues in the fields of climate, environment, bioscience, material, manufacturing, etc. Sunway Taihu Light Supercomputer ranked the world first at the 2016 Frankfurt International Supercomputing Conference (ISC), and became the first supercomputer in the world that has the computing speed of 10 trillion times. Sunway Taihu Light Supercomputer created three number ones in the world: computing power, performance per watt and duration performance.

RESEARCH AREA

- ◆ Scientific and Engineering Computing
- ◆ Cloud Computing and Big Data Processing
- ◆ Application Software Development and Optimization
- ◆ I IDC Hosting and System Operation and Maintenance
- ◆ Technology Consulting and Training
- ◆ Promotion of Localized Technology

- Yang Guangwen
- No.1 Yinbai Road, Binghu District, Wuxi City, Jiangsu Province
- +86-510-85195501
- ygw@mail.tsinghua.edu.cn
- http://www.asictri.com



JITRI OVERSEA REPRESENTATIVE OFFICE

A bridge linking global innovation to the Jiangsu industries

Take full advantage of the excellent and unique entrepreneurial atmosphere and system of the local region overseas, attracts the high-quality innovation projects and resources from: local well-known universities/colleges, research institutes, industries, start-ups and professionals including professors, scientists, post-doctoral, entrepreneurs to build connections with Jiangsu Province.



Silicon Valley Office



North Europe Office

NOW WE HAVE:

Silicon Valley Office	Contact: Yun Zhang	zhangy@jitri.org	+1 408 627 5985
North Europe Office	Contact: Karin Ankerstjierne	kva@china-denmark.com	+45 60 600 913
Stuttgart Office	Contact: Dr.-Ing.Tim Zhang	tim.zhang@jitri.org	+49 176 8800 9211

Subsequently it would be further promote the preparation of related branches in
Toronto, Boston, Houston, London and other regions.....

INTERNATIONAL COLLABORATION

In order to provide advanced technology for the industry in Jiangsu, JITRI would like to explore the collaboration with universities, research institutes and high-tech start-ups around the world.

Collaboration with Stanford University, Massachusetts Institute of Technology, Harvard University, University of California at Berkeley, University of Illinois at Urbana-Champaign,... are under discussion.



Being the bridge between the global innovative resources and Jiangsu industries

With R&D resources and the strong industrial network, JITRI, as a platform that facilitates dialogues between university and industry, provides financial and technology support to the researchers and enterprises, who are interested in developing their businesses in China .

What JITRI can provide for promoting the collaboration between the universities and JITRI for technology transfer?



Provide financial support to the technology research projects of cooperation between Universities and the specified research institutes of JITRI



Support university professors to carry out some specified projects with application prospects in near future



Provide the investment and service to the startups which having broad market prospects or leading the industry development.

TECHNOLOGY TRANSFER

The JITRI's Technology Exchange Market of Jiangsu Industrial Technology Research Institute was established in May 20, 2015. It is specialized in engaging in domestic and international technological achievements transformation.

SERVICE CAPABILITY

- Business Model Management Consulting
- Technology Financial Service
- Intellectual Property Rights Consulting
- Innovation Start-up Training

TECHNOLOGY EXCHANGE SERVICE:

Through precise matching between the technology supply of R&D team and the technology demands of leading enterprises, establish interconnection platform of exchange and cooperation.



Online to Offline Technology Transfer Platform: JITRI-TECH

It mainly develops technology transfer and transformation work by holding three major correlated activities of "JITRI-TECH" --- project road show, topical saloon and technology interconnection. "JITRI-TECH" means the cluster of technology, capital and talent resources.



PROJECT ROAD SHOW:

Build the communication channel between project team and potential investors to provide coaching for start-ups;

TOPICAL SALOON:

Build a forum for academia, industry leaders, government officers and investors for special topics, such as IC design, new medicine and industry 4.0;

SUCCESSFUL CASES OF TECHNOLOGY TRANSFER

- Biological particle counter project
- Doppler wind detector laser
- Highly-efficient PM2.5 catching technology and equipment
- Micro fluid field technology-based 10-thousand-ton production of biological material
- High sensitivity photo-initiator for new-type display panels
- Automatic forging and pressing of industrial robots
- Dipsticks analyzer and analoids
- Manufacturing of 2.5 DTSA silicon-transferred panel and of system integration
- Diesel engine exhaust purification system
- 10-thousand-tone level sea water desalination high-pressure booster pump