

**Harbin Engineering University**

# Fast Facts

**Establishment** 1953

**Location** Harbin, Heilongjiang

<b>Staff</b>	<b>Total</b>	<b>3,006</b>
	Academic staff	1,803
	Administration and support	1,203

<b>Students</b>	<b>Total</b>	<b>28,834</b>
	Undergraduate	15,440
	Graduate	9,310
	International (degree)	1,432 (659)



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# World University Rankings



ARWU 2017



QS BRICS 2018



U.S. News 2018



Material Science  
at U.S. News 2018



QS Asia 2018



Engineering  
at U.S. News 2018



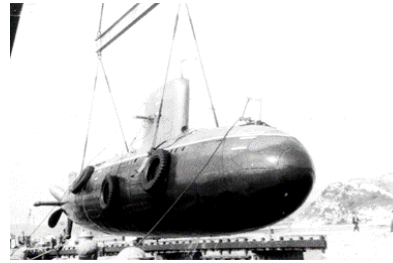
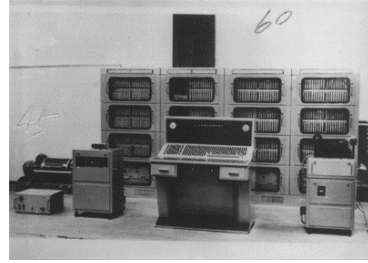
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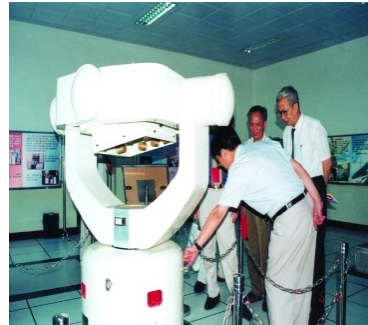
# Historic No.1s in China

**The first experimental submarine**



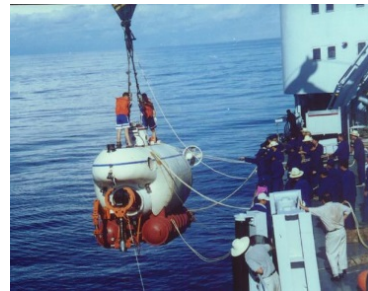
**The first set of ultra short baseline positioning system**

**The first deep-submergence rescue vehicle**



**The first set of DP3 positioning system**

**The first underwater unmanned platform**



**The first set of underwater trajectory test system**

**The first luxury yacht design**

**The first tidal power station**

**The first set of intercontinental missile landing measurement system**

**The first set of submarine noise measurement system**



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# International Collaboration



俄罗斯圣彼得堡  
国立海洋技术大学



法国BV船级社



**NANYANG  
TECHNOLOGICAL  
UNIVERSITY**

南洋理工大学



法国南特中央理工大学



俄罗斯远东联邦大学



新加坡国立大学



英国斯特拉斯  
克莱德大学



**Cass Business School**  
CITY UNIVERSITY LONDON

英国伦敦城市大学



英国南安普顿大学



日本九州大学



英国伦敦大学学院

**SINGAPORE  
POLYTECHNIC**



新加坡理工学院



ABS



THE UNIVERSITY OF  
WESTERN AUSTRALIA

澳大利亚西澳大学



韩国首尔大学



乌克兰马下洛天  
国立造船大学



夏威夷大学



新加坡海事技术研究院

**ClassNK**

日本NK船级社



英国劳氏船级社



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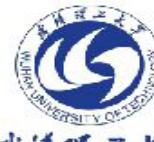
天津大学



大连理工大学



华南理工大学



武汉理工大学  
武汉理工大学



中国船舶重工集团公司



中国船级社



上海交通大学



浙江大学



江苏科技大学



中国海洋大学



中国海洋石油总公司



中国科学院力学研究所



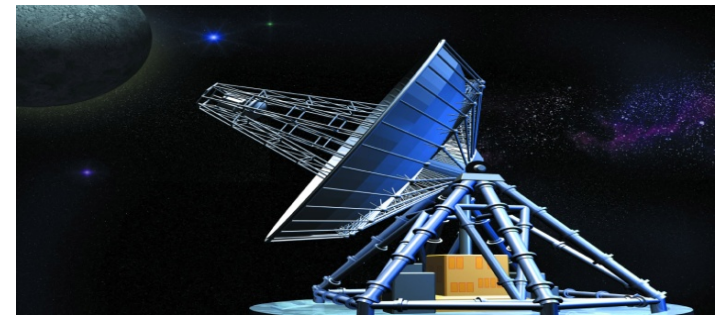
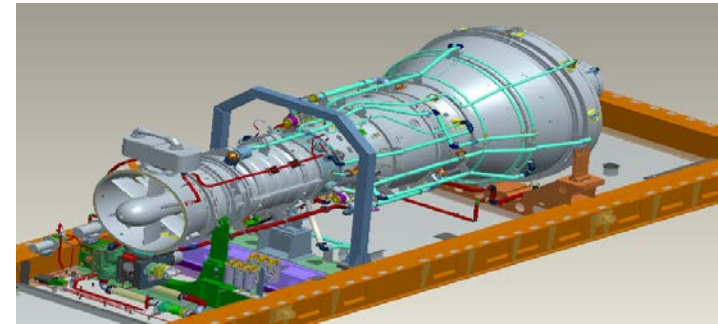
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# Teaching: colleges and schools

College of Shipbuilding Engineering  
College of Aerospace and Civil Engineering  
College of Power and Energy Engineering  
College of Automation  
College of Underwater Acoustic Engineering  
College of Computer Science and Technology & College of Software  
College of Mechanical and Electrical Engineering  
College of Information and Communication Engineering  
School of Economics and Management  
College of Materials Science and Chemical Engineering  
College of Science  
Foreign Languages Department  
College of Humanities and Social Sciences  
Marxism College  
College of Nuclear Science and Technology  
Physical Education Department



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# Research: core areas



**S**hipbuilding



**M**arine  
Equipment



**O**cean  
Exploration



**N**uclear  
Energy



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# Shipbuilding



Large catamaran yacht design



Three body high speed passenger transport ship



Deepwater drilling ship



Key technologies of super energy saving container ship



Large deepwater pipe-laying ship



Independent design of a three body high speed planing boat



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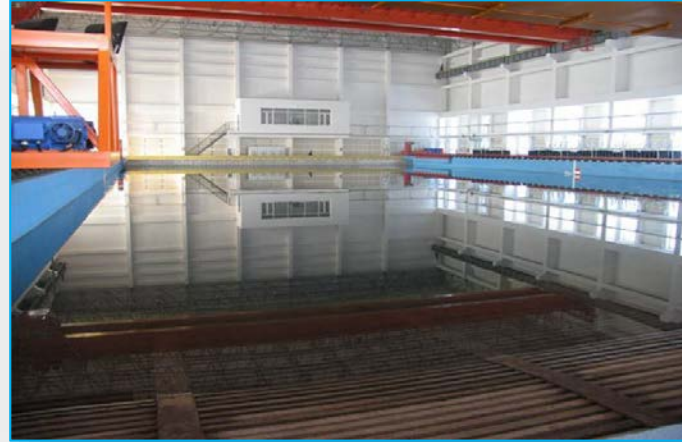
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# Marine Equipment



Underwater Acoustics Key Lab



Underwater Robot Key Lab



Multi-body Ship Technology Lab

## Supercharged Boiler Structure Experiment Lab



# Ocean Exploration



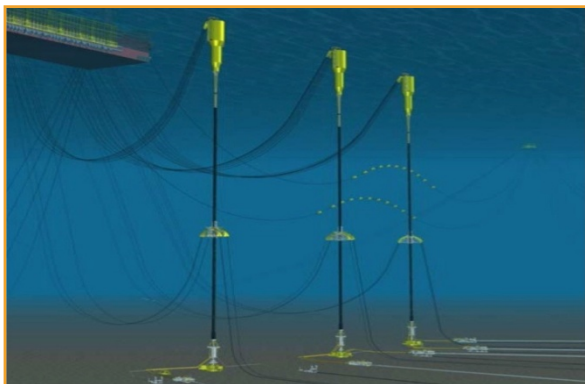
Home-made deepwater semi-submersible drilling platform



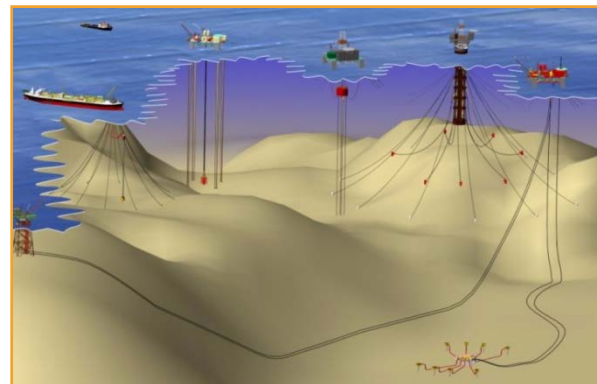
Jack up drilling platform above 120 meter water depth



DP3 dynamic positioning system



Deepwater free standing vertical riser design and analysis technology



Deep water floating structure motion coupling and external load analysis software



Tidal current energy devices

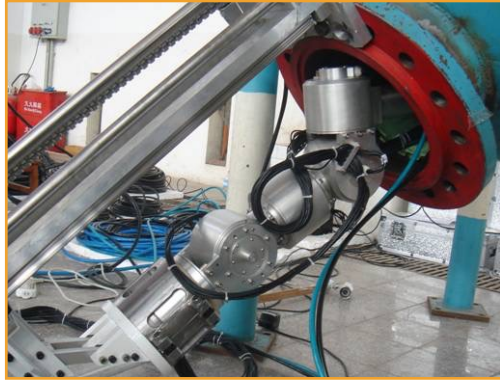


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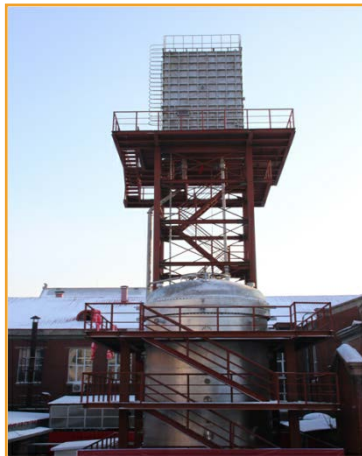
# Nuclear Energy



Detection manipulator for nuclear power system



Independent development of digital simulation system for nuclear power station



Passive safety shell heat export system



Sodium cold test fast reactor simulation



# Prospective Research

Underwater Robot and Underwater Operating System

Ship Anti-vibration and Noise Reduction

Nuclear Power and Nuclear Safety

Ship Power Automation

Intelligent Ship and Information Confrontation in Sea Battlefield

**Polar Grand Science Project**

Digital Ship and Digital Ocean

Green Ship and Ocean New Energy

Shipbuilding, Nuclear, Science Multidisciplinary Initiative

Brainpower for National Security in the Field of Shipbuilding and Nuclear



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# Research Center for Arctic Blue Economy



International scientific and technological cooperation in shipbuilding, marine engineering, ocean studies, and nuclear energy

China-Nordic collaboration in the Arctic: economic development, investments, and sustainability

Cross-border China-Russia collaboration: free economic and trade zones in the northern provinces, maritime transport corridors in the Arctic Ocean, convergence between Belt and Road and Arctic initiatives

**The Center is listed among the leading think tanks of the Ministry of Education of China and the Ministry of Industry and Information Technology of China**





**Welcome to the Ice City of Harbin**