

## Cooperation and Exchange



The college actively carries out multi-level, comprehensive, and wide-ranging foreign cooperation and exchanges. Relying on the UNESCO GRO-FTP fisheries training project, so far, 9 teachers have been selected to go to Iceland for a 6-month international training in aquatic product processing and quality management. Through the China Scholarship Council programs, 5 teachers have been selected for academic visits abroad. Every year, more than five high-level experts from abroad are invited to give speeches at the "Blue Forum" event. Since its launch in 2023, the Japanese Paid Internship Program has cumulatively selected 12 students to practice in Japan. A "2+2" joint training program has been carried out in cooperation with the Russian Far East State Fisheries University. Student exchange mechanisms have been established with universities and institutions such as Tokyo University of Marine Science and Technology, Kagoshima University, Hokkaido University, Nagasaki University in Japan; Korea Maritime University, Pukyong National University, Chung-Ang University in South Korea; South Australian Research and Development Institute in Australia; University of Huddersfield, Teesside University, University of Chester in the UK, etc. More than 50 undergraduate and graduate students have been selected to study abroad for one-year exchange programs. Three graduate students have been selected for the "Japan-China-Korea Marine Environment and Energy International Talent Training Program (JCK Program)" to pursue master's degrees through joint training at Tokyo University of Marine Science and Technology. In 2019, the college, on behalf of our university, was approved to host the "China-Japan High-Level Youth Science and Technology Exchange Program (Sakura Science Plan)" for the first time, and dispatched 1 teacher and 5 undergraduate students to visit Nagasaki University. Through international academic exchanges, scholar exchanges, research cooperation, overseas teacher training and student exchange programs, it has effectively promoted the continuous deepening of the college's connotation construction.



## DALIAN OCEAN UNIVERSITY



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## 食品科学与工程学院

College of Food Science and Engineering

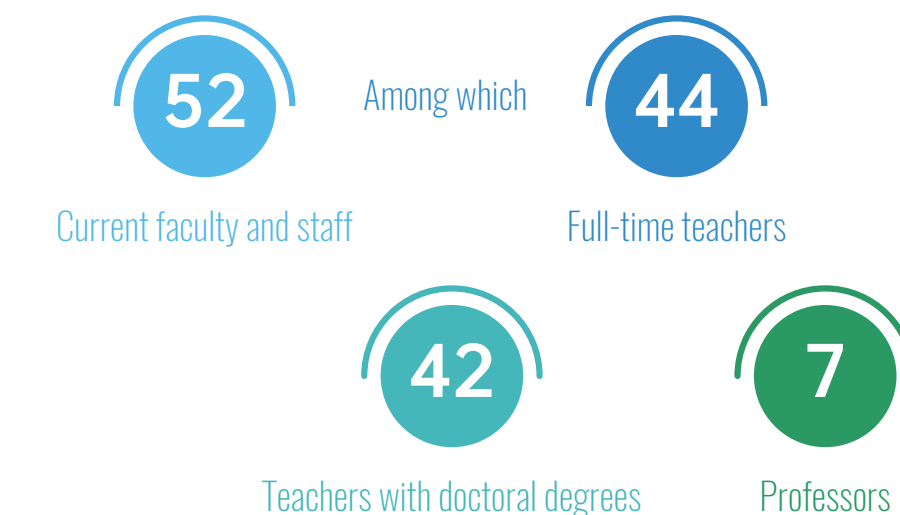
## Development History

The college offers two undergraduate majors: Food Science and Engineering, and Food Quality and Safety. It has a first-level master's degree authorization point in Food Science and Engineering and a professional master's degree authorization point in Food Processing and Safety. There are currently 248 master's students and 765 undergraduate students.

- At its founding, the college was affiliated to the Fishery Machinery Department (1952)
  - 1993 – Food Science and Engineering major
  - 2000 – Master's point in Aquatic Products Processing and Storage Engineering (second-level discipline)
- Independent as the Food Engineering Department (2002)
  - 2004 – Food Quality and Safety major
  - 2005 – Master's point in Food Science (second-level discipline)
- Upgraded to the Food Engineering College (2007)
  - 2010 – Master's point in Agricultural Products Processing and Storage Engineering (second-level discipline)
  - 2010 – Master's point in Food Science and Engineering (first-level discipline)
- Established as the College of Food Science and Engineering (2011)
  - 2014 – Professional master's degree authorization point in Food Processing and Safety
  - 2018 – Food Quality and Safety as a second-level discipline direction



## Faculty Team



# Faculty Team

## ★ 1 recipient of a National Talent Support Program Project

- 1 Position Expert in the National Modern Agricultural Industry System
- 1 expert (1 person-time) enjoying the State Council Special Allowance
- 3 Agricultural Science and Technology Talents (3 person-times) under the "Xingliao Talent Program"
- 1 Liaoning Province Outstanding Science and Technology Worker
- 1 person (1 person-time) in the "Hundred-level" of the Liaoning Province "Hundred, Thousand, and Ten Thousand Talent Project"
- 4 persons in the "Thousand-level" of the Liaoning Province "Hundred, Thousand, and Ten Thousand Talent Project"
- 2 Liaoning Province Teaching Masters
- 2 candidates (2 person-times) selected for the Liaoning Province Higher Education Institutions Outstanding Talent Support Program
- 2 Liaoning Province Outstanding Key Teachers
- 3 Liaoning Province Young Science and Technology Innovation Talents in the Agricultural Field



★ Double-appointed Academician



Academician  
Guan Huashi

★ Deep Blue Schola



Academician  
Zhu Beiwei

# Educational Facilities

The college possesses a provincial-level "Food Science" Experimental Teaching Demonstration Center and a provincial-level "Food Engineering" Virtual Simulation Experimental Teaching Center.



## Characteristic Scientific Research Platforms

<b>Laboratory Area</b> <span style="font-size: 2em;">2,000+</span> square meters	<b>Equipment Owned</b> <span style="font-size: 2em;">1,000+</span> sets	<b>Total Value</b> <span style="font-size: 2em;">20,000,000+</span> Yuan (RMB)
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# Characteristic Scientific Research Platforms

- National Seaweed Processing Technology Research and Development Sub-center
- Key Laboratory of the China General Chamber of Commerce
- Liaoning Provincial Marine Healthy Food Engineering Research Center
- Liaoning Provincial Key Laboratory of Aquatic Products Processing and Comprehensive Utilization
- Liaoning Provincial Science and Technology Service Center for Aquatic Products Analysis, Inspection, and Processing Technology
- Institute of Characteristic Marine Nutrition and Health Food, Liaoning Provincial Industrial Technology Research Institute
- Dalian Aquatic Product Quality and Safety Engineering Technology Research Center
- Dalian Engineering Laboratory for Comprehensive Utilization and Processing Technology of Marine Biological Resources
- Dalian Key Laboratory for Development and High-value Utilization of Characteristic Marine Functional Components

The college has collaborated with leading industry enterprises such as Dalian Zhangzidao Fishery Group Co., Ltd., Dalian Rich Food Co., Ltd., Dalian Xinyulong Marine Biological Seed Industry Co., Ltd., and Dalian Bangchuidao Aquatic Products Co., Ltd. to jointly establish one Liaoning Province "Marine Food" Modern Industry College, one provincial-level off-campus practical education base for college students, and over 20 university-level practice bases.

Platforms of various levels and types provide strong support for deepening the "Integration of Industry and Education", strengthening the "Integration of Science and Education", and continuously enhancing the level of talent cultivation, scientific research, and social service.



# Talent Cultivation

The college firmly implements the fundamental task of fostering virtue through education, comprehensively practices the "Three-wide Education" (all-round, whole-process, all-member education), deepens the "Simultaneous Development of Five Aspects of Education" (moral, intellectual, physical, aesthetic, and labor education), and cultivates applied talents to serve regional industry development.

## · Food Science and Engineering Major ·

It was selected as a Liaoning Provincial First-class Undergraduate Education Demonstration Major in 2019. Based in the Yellow Sea and Bohai Sea regions, targeting Liaoning's aquatic products processing industry, and serving the national "Blue Granary" initiative, the major cultivates applied engineering and technical talents who possess a sense of social responsibility, adhere to professional ethics, systematically master knowledge in mathematics, natural sciences, engineering fundamentals, and food science and engineering, have the ability to solve complex engineering problems in related fields, and can engage in process and engineering design, product and technology development, quality control and inspection, production operation and management, scientific research, and other work in the food sector, especially in the aquatic products deep processing industry.

## · Food Quality and Safety Major ·

It was selected as a Liaoning Province First-class Undergraduate Education Demonstration Major in 2021. The major cultivates applied technical talents who possess firm ideals and beliefs, a strong sense of social responsibility, deep marine sentiment, solid professional foundation, and excellent practical skills. They master the basic knowledge, theories, and skills of food quality and safety management, testing, supervision, and control, have the ability to solve complex engineering problems in this field, and can engage in work related to quality and safety control, analysis and testing, safety evaluation, quality certification, supervision and management, food production and operation, scientific research, etc.

- 9 courses have been selected as provincial-level first-class undergraduate courses.
- 4 achievements have won the Liaoning Province Undergraduate Teaching Achievement Second Prize (since 2018).
- 4 courses have been selected as university-level "Curriculum Ideology and Politics" demonstration courses.
- 1 Curriculum Ideology and Politics Teaching Case has been included in the teaching resource database of the National Higher Agriculture and Forestry Colleges Curriculum Ideology and Politics Alliance and has been launched on the Xinhuanet "Xinhua Ideological and Political Education" teaching resource service platform.

The college thoroughly implements the philosophy of "Student-Centered, Outcome-Based, Continuous Improvement" and continuously deepens the reform of the talent cultivation model. Selecting first-year undergraduate students to form the "Blue Talent" experimental class, which adopts a "2+2" model for intensive cultivation; Selecting undergraduates to the "implement the integrated bachelor-master cultivation program"; Selecting and sending outstanding students to exchange and study at renowned domestic and international marine-related universities; Recommending outstanding undergraduates for direct admission to master's degree programs without entrance examinations. The college focuses on strengthening the reform of innovation and entrepreneurship education. Building a "Integration of Specialty and Innovation" practical education system, achieving full coverage of innovation and entrepreneurship education; Creating the university's brand activity, the "Marine Food" Innovation Competition; Being selected as a targeted university for the Chinese Institute of Food Science and Technology's College Student Food Science and Technology Innovation Competition. Through progressive cultivation via "Interest Clubs → Science and Innovation Competitions → Major Innovation Projects → Scientific Research Training", a large number of achievements in innovation and entrepreneurship education have emerged. The college consistently adheres to boosting connotative development by leveraging its distinctive strengths and advancing the construction of first-class majors through disciplinary development. Teaching reform research and talent cultivation reform projects have achieved remarkable results. In the past five years, the average proportion of recent undergraduate graduates pursuing master's degrees has reached 35%, and the high-quality employment rate has remained above 85%.



# Scientific Research Achievements Since the "13th Five-Year Plan" Period

<b>Undertook Vertical Scientific Research Projects</b> <span style="font-size: 2em;">170+</span>	<b>Including National-level</b> <span style="font-size: 2em;">20+</span>	<b>Provincial / Ministerial-level</b> <span style="font-size: 2em;">100+</span>
<b>Total Research Funds Approved</b> <span style="font-size: 1.5em;">37.81 million Yuan (RMB)</span>	<b>Undertook Horizontal Projects</b> <span style="font-size: 2em;">100+</span>	<b>Funds Received</b> <span style="font-size: 1.5em;">6.4+ million Yuan (RMB)</span>

Relying on the resource advantages of characteristic economic aquaculture species and other marine organisms in the Yellow Sea and Bohai Sea regions, the research teams focus on the fields of deep processing and sustainable development and utilization, adhering to the principle of empowering the industry with technology and serving enterprises through the application of research achievements. Since the start of the 13th Five-Year Plan period, 436 academic papers have been published, of which over 100 are indexed by SCI and EI; 28 invention patents have been authorized. By highlighting characteristics, strengthening advantages, refining research directions, and optimizing teams, the college's technological innovation capability, service development capacity, and industry influence have been continuously enhanced.

The research achievements in the comprehensive utilization and whole-industry-chain technological innovation of brown algae have reached an internationally leading level, having won two Liaoning Provincial Science and Technology Progress First Awards. The research achievements in the high-value processing and utilization of sea cucumbers and shellfish have reached a domestically leading level, having won two Liaoning Provincial Science and Technology Progress Second Awards. Additionally, the college has also obtained one Liaoning Provincial Science and Technology Progress Third Award, one First Award and two Second Awards of Dalian Municipal Science and Technology Progress, one Third Prize of Hunan Provincial Patent Award, one First Award and one Second Award of Zhangjiatie Municipal Science and Technology Progress.

- 2020 Cold-water Brown Algae Cultivation and Whole-industry-chain Key Technology Innovation and Industrialization, Provincial Science and Technology Progress First Prize (Wang Qiukuan)
- 2020 Sea Cucumber High-value Processing and Efficient Utilization Key Technologies of and Industrial Application, Provincial Science and Technology Progress Second Prize (Zhao Qiancheng)
- 2021 Cross-border Aquatic Product Quality and Safety Key Technology Innovation and Standardization Application, Municipal Science and Technology Progress Second Prize (Jiang Dan)
- 2021 Hazard Identification, Early Warning Technology and Standardization Application for Mycotoxins in Food, Provincial Science and Technology Progress Third Prize (Jiang Dan)
- 2024 Characteristic Shellfish High-value Processing and Utilization Key Technologies and Industrialization, Provincial Science and Technology Progress Second Prize (Zhao Qiancheng)

