

**BELT & ROAD**

COLLABORATIVE  
**Doctorate Programs**  
for Faculty Members



**江苏大学**  
JIANGSU UNIVERSITY

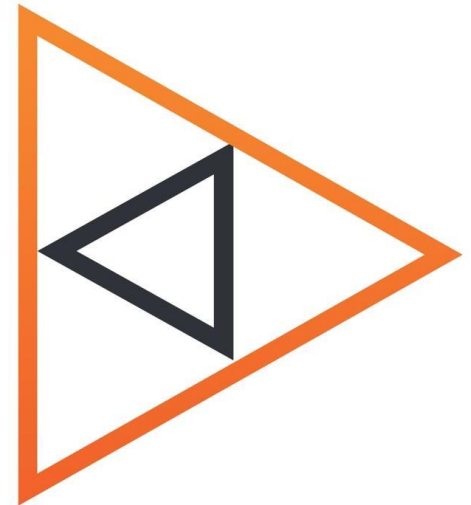




We are glad to introduce our 'Belt & Road' Collaboration on Doctorate Program for Faculty Members of partner universities (Faculty to Faculty Doctorate Academic and Research Collaboration).

Your esteemed University has been identified as a prospective strategic partner and hope we can explore areas of academic and research collaboration and partnership at the postgraduate level, such as Doctorate (PhD) programs.

This special program aims to enhance International capacity development for selected Universities along the Belt and Road Countries and Jiangsu University offers presidential scholarship for excellent PhD students recommended by your university from your faculty members, which **covers tuition, accommodation and even excellent students' assistantship for living expenses.**



Jiangsu University is ranked 39 among about 3000 Chinese universities according to the Evaluations of China's Universities in 2018 by China Academy of Management Science and reputable for its engineering quality and output. Our core disciplines include Agricultural Engineering, Fluid Machinery and Engineering, Food Science and Engineering, Material Science and Engineering, Mechanical Engineering, Chemical Engineering, etc. Five disciplines have been ranked as top 0.5% in ESI, such as Engineering, Clinical Medicine, Materials Science, Chemistry and Agricultural Science.



# PHD PROGRAMS & research directions

## AGRICULTURAL ENGINEERING

1. Detection and Control in Facilities Agro-biological Environmental
2. Electrical Equipment and Information Technology in Agriculture
3. Planting and Harvesting Machinery and Technology
4. Agricultural Environment and Plant Protection Equipment Technology
5. Agricultural Soil and Water Resources Utilization and Water Saving Irrigation Equipment

## CLINICAL MEDICINE

1. Clinical laboratory diagnostic Medicine

## COMPUTER SCIENCE AND TECHNOLOGY

1. Multimedia and Intelligent Information Processing.
2. Trusted Computing and Internet of Things System.
3. Service Computing and Information Security.
4. Data Mining and Information Retrieval.

## CONTROL SCIENCE & ENGINEERING

1. Intelligent control of electric drive
2. Nonlinear system theory and application
3. Pattern recognition and intelligent detection technology
4. Intelligent automation and network control in the production process
5. Modeling and Controls of Complex Economic System
6. Control and Optimizations of Network
7. Information Theory and its Applications

## ENVIRONMENTAL SCIENCE AND ENGG.

1. Environmental Chemistry and Toxicology
2. Environmental Pollution Control and Novel Materials for Environmental Protection
3. Environment Ecology and Agricultural Environmental Protection
4. Equipment and Engineering for Pollution Control
5. Recycle, Reuse, and Recovery of Waste Biomass for Biofuels and Bioproducts
6. Environmental planning and management

## FOOD SCIENCE AND ENGG.

1. Food Science
2. Agricultural product Processing & Storage Engineering
3. Aquatic Products Processing & Storage Engineering
4. Food nutrition & safety

## MANAGEMENT SCIENCE AND ENGG.

1. Management Science and Innovation Management
2. Behavioral Science and Human Resource Management
3. Industry Engineering and Service Science
4. Management System and Social Management Engineering
5. Economic Systems Analysis and Management

## MATERIALS SCIENCE AND ENGINEERING

1. Design and Preparation of Advanced Metal Structural Materials
2. Preparation and Processing Control of Advanced Materials
3. Multifunctional Design and Optimization of Inorganic Nonmetallic Materials
4. Biomaterials and Energy Materials
5. Biomimetic Polymer Science
6. Energy materials

## MECHANICAL ENGINEERING

1. Mechanical Manufacturing and Automation
2. Mechatronic Engineering
3. Mechanical Design and Theory
4. Vehicle Engineering

## POWER ENGG. & ENGG. THERMOPHYSICS

1. Engineering Thermophysics
2. Thermal Engineering
3. Power Mechanics and Engineering
4. Fluid Machinery and Engineering
5. Refrigeration and Cryogenic Engineering
6. Chemical Process Machinery
7. Clean energy and environmental protection

## ELECTRICAL ENGINEERING

1. Magnetic Suspending Drive Technology and Motor Nonlinear Control
2. New Energy and New Type High Efficient Motor Theory and Control
3. Modern AC Speed Regulation and Power Electronic Technology
4. Special Electric Drive Systems and Intelligent Control

## MECHANICS

1. The coupling theory for Multi-physical fields and structure damage/fracture in smart material structures
2. Nonlinear dynamics and control and its application
3. Micro / nanomechanical, multiscale mechanical basis and testing technology
4. Mechanical problems in engineering structures

## TRAFFIC ENGINEERING

1. Simulation and control of road vehicle dynamic performance
2. Synthesis energy saving and environment protection of traffic conveyance
3. Research of traffic information and safety
4. Road vehicle operation and control
5. Intelligent transportation system



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