

DONGHUA UNIVERSITY ENGLISH-TAUGHT MASTER'S DEGREE PROGRAMS

## College of Textiles

NAME OF THE PROGRAM

## Textile Engineering

纺织工程

**TYPE OF THE DEGREE:** Academic Degree

**DEGREE CONFERRED:** Master of Engineering (Textile Engineering)

**SCHOOLING:** 3 years

1. BRIEF INTRODUCTION
2. PROGRAM OBJECTIVES
3. CURRICULUM
4. SUPERVISOR INFORMATION

## **1、 BRIEF INTRODUCTION**

The program relies on the national first-level disciplines, textile science and engineering. During all the national disciplines assessment organized by the ministry of education, the discipline of textile science and engineering is ranked first among other national congeneric disciplines. It is also selected as the "world class" construction subject in September 2017.

The project is focus on the major national demand, services for textile science and technology innovation, industry transformation and upgrading. This subject has been undertaken the national "973", "863" projects, national science and technology support plan and 104 national key research and development projects, won a total of 25 items of second award of national natural science, second award of national scientific and technological progress, and second award of national technology invention. In term of research facilities, the college has established the Textile Technology Key Laboratory of Ministry of Education, the Industrial Textiles Engineering Research Center of the Ministry of Education, and the Textiles Testing Center (certified by the International Metrology Verification Regulation).

3. The textile science and engineering discipline provides a large number of talents for education and industry. The number of the students and graduates have steadily been first all over the world for decades. Numerous of outstanding graduates have become the mainstay of this field, such as: the national top one thousand plan, academician of the American academy of engineering, Zhengdi Cheng; Former President of the American fiber association, Ning Pan; executive vice President of university of Kenya, David R. Tuigong; Academician of Chinese Academy of Engineering, Ziqiang Mei, Yao Mu, Xiang Zhou, Peigeng Li, Jianyun Yu; President of China textile industry association, Tiankai Wang, Ruizhe Sun, etc.

## **2、 PROGRAM OBJECTIVES**

Aimed at training high-level engineering talents in the field of textile, graduate students should have solid basic theory of textile engineering subject, systematically professional knowledge, and broad academic vision. In addition, they should also be familiar with the frontier dynamic of subject, adept in penetrating into other disciplines in the research, having the ability of finishing interdisciplinary research, as well as excellent comprehensive qualities.

## **3、 CURRICULUM**

1. The 1st & 2nd semesters: courses study
2. November of the 3rd semester: thesis proposal submission and report
3. November of the 5th semester: thesis draft and Pre-defense
4. December of the 5th semester: concealed evaluation on the thesis

5. January of the 6th semester: oral defense on thesis

### **Main Courses**

1. Fiber Science (Credit 3)
2. Textile Manufacturing Technology (Credit 3)
3. Textile Chemistry (Credit 3)
4. Bio-medical Materials (Credit 3)
5. China Survey (Credit 2)
6. Industrial Textiles (Credit 3)
7. Composite Materials (Credit 3)
8. Chinese Costume Culture (Credit 3)
9. Material Physics and Chemistry (Credit 3)
10. Polymer Chemistry and Physics (Credit 3)
11. Textile Physics (Credit 3)
12. Applied Linear Regression (Credit 3)
13. Clothing Comfort (Credit 2)

### **Requirements for Thesis Work and Publication of Academic Results**

During the research phase:

First, the signature requirements to Donghua University as the first unit, with the first author or second author (but the first author must be the student's mentor) published by the graduate students and mentors signed by the academic papers included in the the statistical range of academic papers. For graduate students co-cultivating at home and abroad, the published papers are based on the first or second units of Donghua University, students first or second signature (but the instructors signed the name of the school or co-cultivation unit) After the inclusion of graduate students in the academic period published academic statistics.

Second, master graduate students must publish or take at least one non-summative academic dissertation related to the dissertation in a formally published academic journal before applying for a degree.

## 4、SUPERVISOR INFORMATION

### ACADEMIC LEADER



俞建勇 Jianyong Yu

Academician of China Engineering Academy, Professor  
博导

Research Area:

Textile materials and design;  
Textile composites.



李炜 Wei Li

Professor

博导

Research Area:

Novel textile composite materials processing technology, products  
design and their performance;  
Knitted product development and performance



陈南梁 Nanliang Chen

Professor

博导

Research Area:

Industrial textiles and composite material;  
biological medical textile material



覃小红 Xiaohong Qin

Changjiang Professor

博导

Research Area:

Textile Material.



丁彬 Bin Ding

Professor

博导

Research Area:

Functional nanofibers and their applications with regard to sensors, self-cleaning materials, battery separator, catalyst, filtration, protective clothing, oil/water separation, and biomaterials.



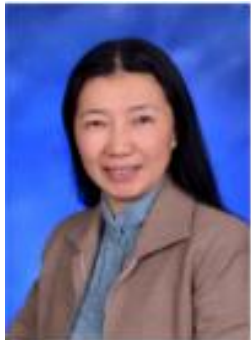
顾伯洪 Bohong Gu

Changjiang Professor

博导

Research Area:

Textile composites



王璐 Lu Wang

Professor

博导

Research Area:

Functional design, forming and evaluation of biomedical textiles (such as vascular prosthesis, hernia mesh, suture, functional dressing, degradable ureteral stent, etc.) as well as green wool textiles



张瑞云 Ruiyun Yun

Professor

博导

Research Area:

Design and development of new fiber fabrics;  
Textile CAD technology;  
Textile image processing and virtual characterization.



王荣武 Rongwu Wang

Changjiang Professor

博导

Research Area:

Image process and pattern recognition;

Image analysis and measurements of textiles;

Structural analysis of nonwovens.



李毓陵 Yuling Li

Professor

博导

Research Area:

Textile Engineering;

Medical Textiles;

Textile Composite.



钟跃崎 Yueqi Zhong

Professor

博导

Research Area:

Modeling virtual garment and virtual human, with a concentration on 3D visualization, sizing/fit evaluation, and the development of portable full body 3D scanner in the apparel industry.



王新厚 Xinhou Wang

Professor

博导

Research Area:

Nonwoven technology: meltblowing, solution blowing or electrospinning of micro/nano fiber;

Manufacturing processes and characterization of yarn and fabric;

Recycling of waste textiles.



曾泳春 Zengying Chun

Professor

博导

Research Area:

New spinning technology; The preparation technology of micro-nano fiber nonwoven fabric; Electrostatic spinning and spraying technology;



王先锋 Xianfeng Wang  
Researcher  
博导  
Research Area:  
Electrostatic Spinning and Nanofibres  
Nonwoven Materials Processing and Forming



许福军 Fujun Xu  
Professor  
博导  
Research Area:  
Textile structural composites;  
Three-dimensional textile structure design and weaving;  
New multifunctional yarns



闫建华 Jianhua Yan  
Researcher  
博导  
Research Area:  
nanofiber fabrication  
flexible and wearable electronics  
energy conversion and storage  
carbon neutralization



汪军 Jun Wang  
Professor  
博导  
Research Area:  
New spinning technology;  
Numerical simulation, intelligent detection and quality control  
during fiber products processing;  
Textile testing technology and performance evaluation.



刘丽芳 Lifang Liu

Professor

博导

Research Area:

Textile materials and design;

Textile composites.



黄莉茜 Liqian Huang

Professor

博导

Research Area:

Processing and application technologies of filament yarn;

processing and modification of newly natural cellulosic fibers;

structure and properties of textiles;

nanocomposites.



杜赵群 Zhaoqun Du

Professor

博导

Research Area:

Development, Characterization and Modelling of Structure and Behaviour of Textile Materials;

Design, Formation and Characterization of Functional and Smart Textiles.



孙宝忠 Baozhong Sun

Professor

博导

Research Area:

Textile materials and textile design, textile composites mechanics, textile composites preparation technology





徐广标 Guangbiao Xu

Professor

博导

Research Area:

Development and application of new textile fibers ( kapok and PTT etc.);

Study on the oil-taking performances of natural fibers (kapok, Cattail, bamboo etc.) and their application in spilled oil recovery;

Evaluation of fabric styles and performances and prediction system building; The planning and construction of textile laboratories.



高晶 Jing Gao

Professor

博导

Research Area:

Structure And Properties Of Functional Textile Materials;

Transfer Properties Of Fibre Aggregates;

Properties And Application Design Of Biomedical Textile Materials



胡吉永 Jiyong Hu

Professor

博导

Research Area:

Textile Ergonomics Theory And Application;

Design, Preparation And Evaluation Technology Of Electronic Information Smart Textiles;

Functional Textile Forming Technology



张斌 Bin Zhang

Professor

博导

Research Area:

Advanced Textiles Processing

Textile Chemistry

Functional Textile Materials



张坤 Kun Zhang

Researcher

Research Area:

Flexible Energy Conversion and Storage Materials and Devices,  
Sensing Materials and Devices, Smart Textiles



王洪 Hong Wang

Professor

博导

Research Area:

Porous functional materials

Biomass materials

Renewable resources materials



毛吉富 Jifu Mao

Researcher

博导

Research Area:

Preparation And Modification Of Conductive Polymer Materials For  
Biomedical Applications

Design And Application Of Conductive Biomedical Textile Materials



季东晓 Dongxiao Ji

Researcher

博导

Research Area:

Personal Protective Equipment

Smart Textiles

Electrocatalytic and Flexible Energy Storage Devices



丁亦 Yi Ding  
Associate Professor  
硕导  
Research Area:  
Textile Inkjet Printing,  
Textile Color Management



蒋秋冉 Qiuran Jiang  
Associate Professor  
硕导  
Research Area:  
Textile Biomaterials  
Textile Filtration Materials  
Textile Smart Materials



姚澜 Lan Yao  
Associate Professor  
硕导  
Research Area:  
Structure And Properties Of Fibre Materials;  
Smart Textile Structural Materials And Textile Metamaterials;  
Textile Composite Material Design And Properties



陆春红 Chunhong Lu  
Associate Professor  
硕导  
Research Area:  
Solution-Spun Biobased High-Performance Fibers  
The Development of Jacquard Woven Fabrics



孙晓霞 Xiaoxia Sun

Associate Professor

硕导

Research Area:

Controllable preparation and application of polymer grade porous monolithic materials  
Development of recycling technology for waste textiles

Development of Functional Textiles



刘力 Li Liu

Associate Professor

硕导

Research Area:

New non-woven processing technology  
Biodegradable Green Nonwoven Materials  
Fibrous Actuator



王克毅 Keyi Wang

Lecturer

Research Area:

New Spinning Technology  
Developments Of Fancy Yarn  
Design And Development Of Woven Fabric



付少举 Shaoju Fu

Lecturer

硕导

Research Area:

Medical Knitted Products.  
Functional Composite Nanofibres And Applications



张威 Wei Zhang

Lecturer

硕导

Research Area:

Textile Materials And Textile Design; Preparation And Mechanical Properties Of Textile Structural Composites; Preparation And Properties Of Additively Manufactured Composites And Functional Materials