Master's Program in Textile Engineering

Title/degree: Master of Textile Engineering

Duration: 2-3 years, full-time

Start month: September

Language of instruction: English

I. Program Description

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.

II. Why study Textile Engineering at Donghua University?

1. The project 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.

2. 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.

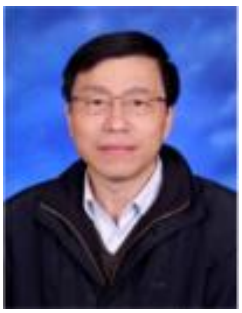
III. Participating Professors and Junior Scientists

ACADEMIC LEADER

俞建勇 Jianyong Yu
Academician of China Engineering Academy，Professor
Research Area:
Textile materials and design;
Textile composites.

刘丽芳 Lifang Liu
Professor
Research Area:
Textile materials and design;
Textile composites.

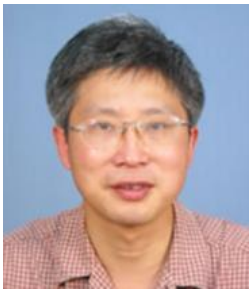
黄莉茜 Liqian Huang
Professor
Research Area:
Processing and application technologies of filament yarn;
processing and modification of newly natural cellulosic fibers;
structure and properties of textiles;
nanocomposites.



于伟东 Weidong Yu
Professor
Research Area:
Structure, Properties and Formation of Textile Materials;
Measuring Technique and Instrument of Textile Materials;
Structure, Properties and Application of Industrial Textiles;
Intelligent Textiles and Characterization.

覃小红 Xiaohong Qin
Professor
Research Area:
Textile Material.

杜赵群 Zhaoqun Du
Professor
Research Area:
Development, Characterization and Modelling of Structure and Behaviour of Textile Materials;
Design, Formation and Characterization of Functional and Smart Textiles.



郁崇文 Chongwen Yu
Professor
Research Area:
Forming theory and technology of fiber assembly;
New spinning technology and related theories;
Research on natural fiber development and utilization.

郭建生 Jiansheng Guo
Professor
Research Area:
Textile material surface treatment technology;
Performance research and product development of new non-petroleum-based fiber;
Textile performance detection technology;
Bionic functional textiles.

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

丁辛 Xin Ding
Professor
Research Area:
Processing technology of textiles;
Fashion industry;
Nor-traditional areas such as civil and structural, aerospace, medical field and information technology.

王新厚 Xinhou Wang
Professor
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.

晏雄 Xiong Yan
Professor
Research Area:
Research and development in the structure and properties of composite fibers, functional textiles, new textile products, new technologies, new materials.

龙海如 Hairu Long
Professor
Research Area:
Smart knitting materials and clothing;
Preparation and properties of industrial knitted materials;
Wearing performance and comfort of knitted fabric and clothing;
Digital textile technique

陈南梁 Nanliang Chen
Professor
Research Area:
Industrial textiles and composite material;
biological medical textile material

张佩华 Peihua Zhang
Professor
Research Area:
Knitted fabric and clothing comfort;
The development of biomedical textiles and the research of biological mechanics.

李炜 Wei Li
Professor
Research Area:
Novel textile composite materials processing technology, products design and their performance;
Knitted product development and performance

靳向煜 Xiangyu Jin
Professor
Research Area:
Structure and properties of nonvowens;
Novel nonvowen techniques and products, including spunlace, meltblown, needle punch, thermal bonding, composite spinning and web forming, etc;
Design and application of geosynthetics;
Manufacture and industrialization of nonvowens products and techniques.

王荣武 Rongwu Wang
Professor
Research Area:
Image process and pattern recognition;
Image analysis and measurements of textiles;
Structural analysis ofnonwovens.

王府梅 Fumei Wang
Professor
Research Area:
Designing of properties and functions of fabrics;
PTT fibers and fabrics;
Technologies of kapok yarn and fabrics;
Measuring Technologies of textiles.

徐广标 Guangbiao Xu
Professor
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.

程隆棣 Longdi Cheng
Professor
Research Area:
Study the Fine Processing Technology in Natural Fibers；
Study the Spinning Technology & their Key Components；
Develop the Newly Textile Products；
Research the Key Machinery & Components for Textile Engineering；

王其 Qi Wang
Professor
Research Area:
Mechanisms, theory models, products designs, manufacturing and standards of comfort, health and protection textiles.

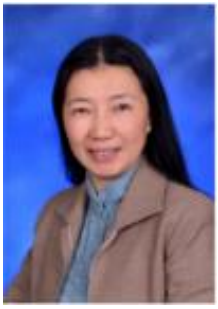
张瑞云 Ruiyun Yun
Professor
Research Area:
Design and development of new fiber fabrics;
Textile CAD technology;
Textile image processing and virtual characterization.

李毓陵 Yuling Li
Professor
Research Area:
Textile Engineering;
Medical Textiles;
Textile Composite.

钟跃琦 Yueqi Zhong
Professor
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.

顾伯洪 Bohong Gu
Changjiang Professor
Research Area:

丁彬 Bin Ding
Professor
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.



王璐 Lu Wang
Professor
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

崔运花 Yuncui Hua
Professor
Research Area:
Fiber products processing, processing of chemical fibre, biological technology, fiber modification;Textile fiber structure and performance study;Textile dyeing and finishing technology research;

邱夷平 Yiping Qiu
Professor
Research Area:
Performance analysis and application of high performance fiber reinforced three-dimensional composite materials；The production, performance analysis and application of 3d composite materials based on intelligent materials and structures；Surface plasma modification of fibrous material

孙宝忠 Baozhong Sun
Professor
Research Area:
Textile materials and textile design, textile composites mechanics, textile composites preparation technology

郭腊梅 Lamei Guo
Professor
Research Area:
The study of slurry and slurry research, the study of new size and the new problems in the production of slurry. The study of functional textiles has special functions for fiber and textiles by chemical treatment. Functional auxiliaries research, fiber processing. Textile materials and textile design, textile composites mechanics, textile composites preparation technology

曾永春 Zengying Chun
Professor
Research Area:
New spinning technology; The preparation technology of micro-nano fiber nonwoven fabric; Electrostatic spinning and spraying technology;

IV. Modules

C：compulsory course E：elective course CP：credit points

Consolidation Phase 1st Year			
C/E	*Topic*	*CP*	
C	*Intergrated Chinese I*	*4*	
C	*Intergrated Chinese II*	*4*	
C	*China Survey*	*2*	
C	*Fiber Science*	*3*	*One needs to obtain 22CPs from compulsory courses and 12CPs from elective courses. These 34CPs should in general be acquired in the 1st year.*
C	*Textile Manufacturing Technology*	*3*	
C	*Textile Chemistry*	*3*	
C	*Bio-medical Materials*	*3*	
E	*Industrial Textiles*	*3*	
E	*Composite Materials*	*3*	
E	*Chinese Costume Culture*	*3*	
E	*Material Physics and Chemistry*	*3*	
E	*Polymer Chemistry And Physics*	*3*	
E	*Textile Physics*	*3*	

E	*Applied Linear Regression*	*3*	
E	*Clothing Comfort*	*2*	

Scientific Phase			*During the research phase* *First, the signature requirements* *To Dong hua 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* *Master's 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.*
2nd Year	*Thesis Proposal*	*NOV.*	
3rd Year	*Pre-defense*	*NOV.*	
	Concealed Evaluation	*DEC.*	
	Final Defense	*JAN.*	

In case you experience any problems throughout your studies, please contact student advisors. They are ready to help you personally for all situations you might encounter.

Mr. Kaicong Huang

Ms. Qilu CUI

Ms. Shanshan GUO