

# **Master's Program in Textile Chemistry and Dyeing & Finishing Engineering**

**Title/degree:** Master of Textile Chemistry and Dyeing & Finishing Engineering

**Duration:** 2.5-3 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 chemistry and dyeing & finishing, graduate students should have solid basic theory of textile chemical 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 Chemical Engineering at Donghua University?**

1. The project relies on the national first-level disciplines, textile chemistry and dyeing & finishing, which is both national and Shanghai municipal key discipline, and selected as the "world class" construction subject in September 2017. Department of Textile Chemical Engineering was found in 1951. As one of the earliest teaching & science research institutes of textile chemistry and dyeing & finishing in China, it offers bachelor's, master's and doctoral degrees and provides postdoctoral program.
2. After generations of united effort, cooperation and hard work, Department of Textile Chemical Engineering has obtained rapid development. Qualified professors, well-equipped facilities in both teaching and scientific research make the department an important base for talent training and research in textile chemistry and dyeing & finishing. There are twenty-four associate professors and professors in Department of Textile Chemical Engineering including one academician of China Academy of Engineering, two professor for Thousand Talent Plan, and thirteen Ph.D supervisors. Department of Textile Chemical Engineering has established strong relationships and great cooperation with many international universities and multinational companies.

3. The project focuses on the major national demand, services for textile chemistry and dyeing & finishing technology innovation, industry transformation and upgrading. This subject has undertaken the national “863” and Key R&D Programs, national science and technology support plan and national natural science foundation of China, won two second-class prizes of National Prizes for Progress in Science and Technology, three Provincial and Ministerial Technical Invention Awards, eleven Provincial and Ministerial Scientific and Technological Progress Awards since 2006. In term of research facilities, the department has established three important research bases including the National Research Center for Dyeing and Finishing, the Key Laboratory of Textile Fabric Science and Technology of Ministry of Education (dyeing and finishing division) and the Key Laboratory of Eco-Textile of Ministry of Education.

### III. Participating Professors and Junior Scientists



*何瑾馨 Jinxin He*

*Professor*

*Research Area:*

*Textile printing and dyeing process, dyeing and printing industry and environment, novel textile chemicals*



*蔡再生 Zaisheng Cai*

*Professor*

*Research Area:*

*Functional finishing of textiles, textile printing and dyeing process, novel textile chemicals*



*毛志平 Zhiping Mao*

*Professor*

*Research Area:*

*Functional finishing of textiles, green textile chemicals*



*赵涛 Tao Zhao*

*Professor*

*Research Area:*

*Textile printing and dyeing process, novel textile chemicals, biomass materials*



*谢孔良 Kongliang Xie*

*Professor*

*Research Area:*

*Functional materials, textile printing and dyeing process*



*邢彦军 Yanjun Xin*

*Professor*

*Research Area:*

*Functional finishing of textiles*



*王炜 Wei Wang*

*Professor*

*Research Area:*

*Functional finishing of textiles, textile printing and dyeing process*



*陈英 Ying Chen*

*Professor*

*Research Area:*

*Modification of textile materials, textile printing and dyeing process*



*侯爱芹 Aiqing Hou*

*Professor*

*Research Area:*

*Functional biomaterials, textile printing and dyeing process*



*徐红 Hong Xu*

*Professor*

*Research Area:*

*Functional polymer materials, functional finishing of textiles, surface modification of textile materials*



*罗艳 Yan Luo*

*Professor*

*Research Area:*

*Novel textile chemicals, textile printing and dyeing process*



*李戎 Rong Li*

*Professor*

*Research Area:*

*Dyeing and printing industry and environment, color science and its application*



*隋晓锋 Xiaofeng Sui*

*Professor*

*Research Area:*

*Functional polymer materials, functional finishing of textiles*



*冯雪凌 Xueling Feng*

*Professor*

*Research Area:*

*Functional polymer materials, functional finishing of textiles*



*赵亚萍 Yaoping Zhao*

*Associate Professor*

*Research Area:*

*Surface modification of polymer materials, functional textiles*



*朱智甲 Zhijia Zhu*

*Associate Professor*

*Research Area:*

*Analytical techniques of textile chemicals*



*葛凤燕 Fengyan Ge*

*Associate Professor*

*Research Area:*

*Modification of fiber materials, functional polymer materials, textile printing and dyeing process*



*闵洁 Jie Ming*

*Associate Professor*

*Research Area:*

*Functional finishing of textiles, textile printing and dyeing process, novel textile chemicals*



*周奥佳 Aojia Zhou*

*Associate Professor*

*Research Area:*

*Functional finishing of textiles, surface modification of polymers*



*王碧佳 Bijia Wang*

*Associate Professor*

*Research Area:*

*Biomass materials, textile printing and dyeing process*



*俞丹 Dan Yu*

*Associate Professor*

*Research Area:*

*Functional finishing of textiles, metallization of flexible materials*



*徐壁 Bi Xu*

*Associate Professor*

*Research Area:*

*Functional textiles, modification of fiber materials, novel textile chemicals*



*董霞 Xia Dong*

*Associate Professor*

*Research Area:*

*Surface modification of polymer materials, functional finishing of textiles, novel textile chemicals*



刘保江 Baojiang Liu

Associate Professor

Research Area:

Functional finishing of textiles, biomass materials, novel textile chemicals

## IV. Modules

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

<b>Consolidation Phase 1st Year</b>			One needs to obtain 25CPs from compulsory courses and 9CPs from elective courses. These 34CPs should in general be acquired in the 1st year.
C/E	Topic	CP	
C	Intergrated Chinese I	4	
C	Intergrated Chinese II	4	
C	China Survey	2	
C	Advanced Organic Chemistry	3	
C	Experimental Organic Chemistry	3	
C	Structure Analysis of Organic Compounds	3	
C	Textile Chemistry	3	
C	Functional Finishing	3	
E	Colloid and Interface Chemistry	3	
E	Smart Textiles	3	
E	Color Science and Technology	3	
E	Application of Modern Instrumental Analysis in Dyeing & finishing	3	
E	Novel Dyeing and Finishing	3	
E	Analysis and Detection Technology of Textile Dyeing and finishing	3	
E	Reading and Writing of Technological Thesis	2	



<b>Scientific Phase</b>			
<b>2<sup>nd</sup> Year</b>	<i>Thesis Proposal</i>	NOV.	<p>(1) Master graduate students must publish at least one research paper related to the dissertation in a formally published academic journal before applying for a degree.</p> <p>(2) Take Donghua University as the first unit, the student must publish at least one research paper as the first author or second author (but the first author must be the student's mentor). 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.</p>
<b>3<sup>rd</sup> Year</b>	<i>Pre-defense</i>	NOV.	
	<i>Concealed Evaluation</i>	DEC.	
	<i>Final Defense</i>	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.