



The history of the School of Mechanical Engineering (ME) of Shanghai Jiao Tong University (SJTU) may date back to 1913. Over the past century, the School has cultivated tens of thousands of graduates who made significant contribution to the technological development and economic growth in the world as scientists, engineers, educators, statesmen and entrepreneurs. In the new century, the School adopted a vision of a world-class engineering school that offers the best learning experience to its students, the most rewarding working environment for its faculty and staff as well as the most effective service to the industry and the society.

The faculty, staff and students are the foundation of all that the School has been able to achieve. The School has a team of 458 faculty and staff members, of which 116 are full professors and 142 associate professors, and the student population is over 5,000. Each year, the School admits nearly 1,450 new students, 450 of which are enrolled in the Bachelor's degree programs, 350 in the Master's degree programs, 500 in the Professional Master's degree programs and 140 in the Doctoral degree programs. Over the past few years, the School has witnessed a substantial increase in the research funding it received. The School received 71.9 million USD in 2015, of which 40% was from the industry collaborative R&D projects and 60% was from the government funding.

School of Mechanical Engineering

List of Ph.D. Programs	List of Master Programs		
	Mechanical Manufacturing and Automation		
Mechanical Engineering	Mechatronics		
	Machine Design and Theory		
	Vehicle Engineering		
Industrial Engineering	Industrial Engineering		
	Engineering Thermophysics		
	Thermal Energy Engineering		
Power Engineering and	Power Machinery and Engineering		
Engineering Thermophysics	Fluid Machinery and Engineering		
	Refrigeration and Cryogenic Engineering		
	Fuel Cell		
Nuclear Science and Engineering	Nuclear Science and Engineering		

ME Faculty					
Total	T	Prof.	Assoc. Prof.	Assis. Prof.	
335		116	142	77	

16th

2013 QS World University Rankings by Subject

- Engineering - Mechanical, Aeronautical & Manufacturing

9th

2016 US News University Ranking

- Best Global Universities for Engineering









No.	Courses Offered in English	Semester
1	Digital Signal Processing	Fall
2	Wearable Systems	Fall
3	Vehicle Dynamics	Fall
4	Advanced Operations	Fall
5	Production and Operation Analysis	Fall
6	Elastic and Plastic Mechanics	Fall
7	Game Theory	Fall
8	Computer Graphics	Fall
9	Circulating Fluidized Bed Combustion	Fall
10	New Energy Systems	Fall
11	Computational Fluid Dynamics	Fall
12	Advanced Heat Transfer	Fall
13	Fundamentals and Practices of Advanced Aerodynamics Measurement Technologies	Fall
14	Factory Physics	Fall
15	Advance Engineering Thermodynamics	Spring & Fall
16	Basic Principle, Sensors and Systems for Mechanical Measurement	Spring
17	Tribology and Lubrication Theory	Spring
18	Structural Acoustics	Spring
19	Data Mining	Spring
20	Introduction to Discrete	Spring
21	Advanced Powertrain Technologies	Spring
22	Modern Vehicle Control Engineering	Spring
23	Machine Vision and its Applications	Spring
24	Micro Manufacturing	Spring
25	Combustion Chemical Kinetics	Spring
26	Multiphase Flow and Heat Transfer	Spring
27	Microfluid Flow and Heat Transfer	Spring
28	Advanced Fluid Dynamics in Engineering	Spring
29	Advanced Combustion Theory	Spring

Key Laboratories

4 State Key Labs State Key Lab for Mechanical Systems and Vibration
State Engineering Laboratory of Automotive
Electronics Control

State Key Lab for Marine Shock and Vibration
State Engineering Laboratory for Reducing Coal Emissions.

2 MOE

Power Machinery and Engineering Solar Power and Refrigeration

2 Shanghai Labs Digital Auto Body Engineering, Shanghai Advanced Manufacturing Environment, Shanghai

Priority Research Areas

I Mechanical Manufacturing

Manufacture Processing and Automation Auto-body Design and Manufacture Non-traditional Machining Industrial Engineering Intelligent Manufacturing

I Mechanical Design

Design Theory and Methodology Mechanism and Mechanical Design Artificial Prosthesis Design

I Mechatronics

Robotics and Bio-mechatronics Precision Engineering and Control System Technology Intelligence Robotics and Application in Industry

I Engine Combustion and Environmental Technology

Engine Combustion
Automotive Electrical Control Technology
Engine Supercharging
Fuel Production and Environmental Technology
Electrification in Automotive Powertrain System

I Energy Science and Technology

Turbomachinery Energy and Combustion Science Heat and Mass Transfer

I Vibration, Shock and Noise

Vibration Shock Theory, Application and Control Noise Mechanism, Prediction and Control Mechanical Informatics and Diagnosis

I Refrigeration and Heating, Ventilation and Air Conditioning (HVAC)

Energy Utilization in Refrigeration and HVAC Systems Simulation and Digital Design of Refrigeration and HVAC Systems Cryogenic Systems and Low Temperature Heat Transfer HVAC green energy systems, Thermal comfort and IAQ

I Nuclear Science and Engineering

Advanced Nuclear Systems and Safety Nuclear Fuel Cycle Reactor Physics Radiation Protection and Environment Nuclear Thermal-Hydraulics Reactor Structure and Material

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