

Energy Environmental Engineering (Master's and Doctoral program)
College of Energy Engineering, Zhejiang University www.doe.zju.edu.cn
Introduction
<p>The postgraduate program of Energy Environmental Engineering is offered by the Institute for Thermal Power Engineering (ITPE) at the College of Energy Engineering of Zhejiang University. It aims to cultivate advanced technical talents. Students are trained to acquire solid basic theory and wide specialized knowledge in the cross field of energy and environmental engineering. Graduates are expected to have abilities to do scientific research and solve complex engineering technical problems with their obtained knowledge in the area of energy and environmental engineering.</p> <p>The Institute (ITPE) hosts a high-level research platform named The State Key Laboratory of Clean Energy Utilization (CEU) which focuses on fundament and application researches in energy and environment.</p> <p>The main research subjects at CEU are: Efficient and Clean Utilization of Fossil Fuel; New and Advanced Energy System; Clean Utilization of Low Grade Energy; Pollutants Formation, Transmission, Measurement and Control during Energy Utilization; Numerical Simulations in Multiphase Reaction System; and etc</p>
Courses
<p>1.Core courses</p> <p>Chemical Theory for Energy and Environment System; Foresight of Energy Science and Technology; Modern Analysis Measurement and experiment</p> <p>2.Elective courses</p> <p>Advanced Heat Transfer; Modern Thermal Physics Measurement Theory and Technology; Numerical Simulation for Power Engineering; Advanced Engineering Thermodynamics; Advanced Fluid Mechanics; Advanced Combustion; Modern Biomass Utilization; Theory and Techniques of Low-pollution Combustion; Waste resource utilization; Energy Materials Science; Energy and Environment Pollution and Treatment; Introduction of Solar Thermal Energy Utilization</p>