

Postdoc in mechanical engineering  
Huazhong University of Science and Technology

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Posted Mar. 21, 2025, set to expire Jul. 20, 2025

<b>Job Title</b>	Postdoc in mechanical engineering
<b>Department</b>	Mechanical Engineering <a href="http://english.mse.hust.edu.cn/">http://english.mse.hust.edu.cn/</a>
<b>Institution</b>	Huazhong University of Science and Technology Wuhan, Hubei, China
<b>Date Posted</b>	Mar. 21, 2025
<b>Application Deadline</b>	Apr. 1, 2026
<b>Position Start Date</b>	Available immediately
<b>Job Categories</b>	Post-Doc
<b>Academic Field(s)</b>	Mechanical Engineering
<b>Apply By Email</b>	
<b>Job Description</b>	

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### **Postdoc job description**

Research Directions: Dynamics and Control of High-End Equipment: Dynamics design of high-end equipment systems, high-performance active vibration reduction, electromagnetic drive platform design, mechatronic co-simulation and digital twin of high-end equipment, analysis and design of nano-precision coarse-fine motion stages, machine learning and artificial intelligence, software development, etc. Precision Drive and Motion Control: High-precision motion control and testing, high-performance motor servo drive, six-degree-of-freedom magnetic levitation platform drive and control, lithography machine whole machine control and in-loop testing system, etc. Intelligent Mobile-Manipulation Robots: Bio-mechanics and design of intelligent mobile-manipulation robots (including but not limited to humanoid robots, multi-legged mobile robots, wheel-leg compound mobile robots, cross-medium compound mobile robots, underwater unmanned systems, etc.), integrated planning of motion and manipulation, high-dynamic full-body coordinated control, motion-manipulation skill learning, task decision-making and reasoning, multi-modal perception and understanding, autonomous navigation, swarm planning and collaborative control, embodied intelligence, etc.

Meet the basic application conditions for postdoctoral positions at Huazhong University of Science and Technology <http://postdoctor.hust.edu.cn/info/1007/2928.htm>, full-time, under 32 years old (can be relaxed to 35 years old for particularly outstanding candidates), with a doctoral degree obtained within the last 3 years.

Have a professional background in mechanical engineering, artificial intelligence, automation, computer science, mechanics, materials science, telecommunications, etc.

Possess a strong interest in scientific research, independent research capabilities, a proactive and enterprising work attitude, and good teamwork spirit.

Academician Chen Xuedong is an academician of the Chinese Academy of Engineering, a professor and doctoral supervisor at the School of Mechanical Science and Engineering, Huazhong University of Science and Technology, and the head of the High-End Equipment Dynamics Design and Control Team. The team currently has six professors, one assistant researcher, five engineers and research assistants, 38 doctoral students, and 40 master's students. Since its establishment, the team has faced the world's scientific and technological frontiers, the main economic battlefield, and the major national needs. Targeting the dynamics design and control of mechanical systems, it has undertaken nearly a hundred projects or topics from the National Basic Research Program of China (973 Program), the National High-Tech R&D Program of China (863 Program), the National Natural Science Foundation of China, the National Key Research and Development Program, the National Science and Technology Major Projects, and the national defense programs. It has solved key technical problems such as the

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motion precision of nano-precision manufacturing equipment, the operational safety of large-scale heavy-duty equipment, the service stability of advanced airborne instrument equipment, and the all-round mobility of mobile robots. The relevant achievements have supported the development of major national equipment and strategic projects, meeting the urgent needs of the country. The team has abundant scientific research resources and superior research conditions, providing a scientific research platform for each postdoctoral fellow. We welcome outstanding talents to join us. We welcome doctoral students who are about to graduate or have already graduated from home and abroad to contact us!

### **Postdoc Benefits**

The employment term is for a minimum of 2 years, with an annual salary ranging from 250,000 to 400,000 yuan. Postdoctoral fellows will be eligible for various achievement awards based on their contributions and will be given priority in recommending for national and local talent programs.

Adequate research funding and a favorable research environment will be provided. A good platform for personal development will be created, and guidance and assistance will be offered in applying for the Postdoctoral Innovation Program, Postdoctoral Fund, and the National Natural Science Foundation of China for Young Scientists.

During the employment period, postdoctoral fellows, in reference to the regular staff of the university, will enjoy welfare benefits such as children's school enrollment and daycare, social medical insurance, and other social insurances (specific welfare benefits will be in accordance with the unified standards of Huazhong University of Science and Technology). They may apply for postdoctoral apartments or receive housing subsidies.

Outstanding performers will be given priority in recommending for faculty positions.

### **Application Process**

Please send your personal resume (including basic personal information, educational and work experience, main research achievements, list of papers and monographs, etc.) to the email address: [binhan@hust.edu.cn](mailto:binhan@hust.edu.cn). Please indicate "Postdoctoral Application + Your Name" in the email subject line. If you have any questions, feel free to ask in your email.

### **Contact Information**

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Please reference Academickeys in your cover letter when applying for or inquiring about this job announcement.

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