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History of HIT

- **1920** Founding of Harbin Sino-Russian school for industry (Establishment of Civil Engineering Specialty)
- **1949** Post graduate Program
- **1951** 1/2 University models studying from Russia
- **1954** 1/6 National key universities
- **1984** 1/15 National Key Universities
- **1996** 1st Batch of universities in Project 211
- **1999** 1 of top 9 universities in project 985, Member of C9
- **2000** Consolidation with Harbin Uni of Civil Eng. & Arch., as the current Harbin Institute of Technology

HIT has remained an international university since its foundation. Now HIT is making great efforts to become a well-known world-class university.
History of SCE - Milestone

Civil Engineering 1 / 2 oldest disciplines in HIT
1920 Harbin Sino-Russian school for industry—Department of Railway Building Construction
1928 Harbin Institute of Technology — Department of Civil Engineering
History of SCE - Milestone

1959 Harbin Building Engineering College — Department of Construction Engineering
1994 Harbin Univ. of Civil Eng. & Arch. — School of Construction Engineering
History of SCE - Milestone

2000  Harbin Institute of Technology —
School of Civil Engineering
History of SCE - Milestone

Civil Engineering, and Mechanics were authorized the National Key Disciplines Supported by MOE (2 / 9 in HIT).

2007

2010
History of SCE - Milestone

2010 The 90th anniversary of the establishment of the Civil Engineering Specialty

Elites in Civil
Programs

- 5 Undergraduate Programs
- 3 Master Programs
- 3 Doctoral Programs
- 2 Post-Doctor Programs

Civil Engineering, Mechanics
Programs

- Undergraduate Programs

- Civil Engineering
- Theoretical and Applied Mechanics
- Urban Underground Space Engineering
- Structural Engineering
- Geotechnical and Underground Engineering
- Civil Engineering Materials
- Mechanics & Civil Elite Program (4+2)
- International Program (Full English Course, 2012)

259 freshmen in 2011, Admission exam score ranking 1st in HIT
Programs

- Postgraduate Programs (Master Degree)

Civil Engineering
- Academic
- Engineering

Mechanics
- Academic

- Structural Engineering
- Disaster prevention and reduction engineering
- Geotechnical Engineering
- Bridge and Tunnel Engineering
- Civil Engineering Materials

- Engineering Mechanics
- Solid Mechanics
Programs

-Postgraduate Programs (PhD Degree)

Civil Engineering
- Academic
- Engineering

- Structural Engineering
- Disaster prevention and reduction engineering
- Geotechnical Engineering
- Bridge and Tunnel Engineering
- Civil Engineering Materials

Mechanics
- Academic

- Engineering Mechanics
- Solid Mechanics
Programs

- Civil Engineering, and Mechanics Programs, Ranking 3rd in the Discipline Evaluation by MOE in 2003

- Civil Engineering, and Mechanics Programs, Ranking 3rd in the Discipline Evaluation by MOE in 2008

- Civil Engineering, and Mechanics Programs, Ranking 2nd and 1st in the Discipline Evaluation by MOE in 2013
Programs

- Full time students: 1,473
  - Undergraduate Students: 902
  - Graduate Students: 537
    - Doctoral Students: 201
    - Master’s Degree: 336
  - International Students: 34
Faculty - Divisions of SCE

- Steel and Timber Structures Engineering
- Concrete and Masonry Structures Engineering
- Geotechnical and Construction Engineering
- Engineering Mechanics and Ocean Engineering
- Disaster Prevention and Bridge Engineering
- Civil Engineering Materials
## Faculty

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Faculty - Distinguished Professor

Engineering Mechanics and Structural Design Theoretical Expert

Professor WANG Guangyuan

- Academician of Chinese Academy of Engineering
- Seismic motion research Based on stochastic process theory. Establishment the full-range optimization theory in the structures and Engineering system
Faculty - Distinguished Professor

Space Structures Expert

Professor SHEN Shizhao

- Academician of Chinese Academy of Engineering
- One of the Founders in the area of Large-span Spacial Structures in China.
Faculty - Distinguished Professor

Earthquake Engineering Expert

Professor XIE Lili

- Academician of Chinese Academy of Engineering
- The founder in the area of Observation and Analysis of Strong Earthquake.
Faculty - Distinguished Professor

Engineering Mechanics and Disaster Prevention and Reduction Engineering Expert

Professor OU Jinping

- Academician of Chinese Academy of Engineering
- Research Interest in Structural Control, Health Monitoring, Disaster Prevention and Reduction etc.
Faculty - Distinguished Professor

Engineering Mechanics Expert

Professor WANG Huanding

- National Distinguished Teacher Award
- Research Interest in Computational Structural Mechanics, Structural Dynamics, Structural Vibration Control, Remote Teaching etc.
Faculty - Distinguished Professor

Disaster Prevention and Reduction Engineering Expert

Professor LI Hui

- Award National Distinguished Youth Scientific Funding, Chang-Jiang Program Scholar
- Research Interest in wind Engineering, earthquake Engineering, maintenances, life-cycle performance design, Smart Sensors and Health Monitoring Systems of Civil Infrastructures, smart Concrete Material and Structures
Faculty - Distinguished Professor

Prestressed Structure Expert

Professor ZHENG Wenzhong

- Chang-Jiang Program Scholar
- Research Interest in Pre-Stressed Structures, Structural Fire Resistance, Seismic reinforcement etc.
Faculty - Distinguished Professor

Composite Structures Expert

Professor ZHANG Sumei

- China Youth Science and Technology Award
- Research Interest in Steel-Concrete Combine Structures, Steel Tube Concrete Structures and Steel Structures Research
Faculty - Distinguished Professor

Space Structures Expert

Professor FAN Feng

- China Youth Science and Technology Award, Chief Engineer of FAST Structural Engineering System
- Research Interest in Large-span Spacial Structures, Earthquake Engineering, Impact & Blast Engineering
Faculty

International Professors

UC Berkeley
Structure Dynamics and earthquake Expert
Professor Chopra

UIUC Structure Control and Monitoring Expert
Professor Billie Spencer

University of Sydney
Steel Structures Expert
Professor Kim Rasmussen

UCSD Structural Engineering and Testing Technology Expert
Professor Benson Shing

University of Kyoto Disaster Prevention and Reduction Expert
Professor Suzuki Yoshino

Tokyo University of Technology
Wind Engineering Expert
Professor Yukio Tamura
Teaching - Platforms & Courses

- 1 National Experiment Center for Teaching
- 3 National Engineering Practice Centers
- 1 National Excellent Teaching Group
- 1 National Distinguished Teacher
- 3 National Excellent Courses
- 5 Provincial Level Excellent Courses
- 11 University Level Excellent Courses
Teaching - Innovation Activities

- Civil Engineering National Experiment Center for Teaching
- Civil Engineering Student Innovation Experiment Center
- National College Students Structural Design Competitions Hosted in SCE
Teaching - Second Classes

Students Union Activities

- Young Volunteers Association
- Character Development Center
- Musical Instrument Association
- Vocal Music Association
- Youth Drama Association
- The Band, Tiening
- Basketball Association
- Football Association
- Table Tennis & Badminton Center
- Ancient Poetry Forum
- Game Association

学院分团委
学院学生会
铸魂合唱团
学生社团
学生科技协会
研究生分会
Teaching - Second Classes

The Students in the 90th Anniversary of SCE Celebration Performance.

The New Year Evening Zhuhun, the Choir in SCE, playing in Harbin Summer Concert.

The Annual Culture Festival
The Annual Sports Festival
The Annual Science Festival
The First Student Volunteer Service Group on Helping Migrant Children
The Student Volunteers at Social Practices in Summer Vacation
Teaching - Scholarship

- National Scholarship
- HIT Special Scholarship

SCE Special Scholarship
(150 Full Scholarship / Year,
RMB: 11 millions Yuan, from 2010)

- Thomas Tsu Scholarship
- Dongliang Scholarship
- Civil Elite Scholarship
- Weizhixing Scholarship
- Construction Group Scholarship
- Hongyeji Scholarship
- Aizhiyuan Scholarship
- ......
Teaching -International

Developing the Close Collaboration between SCE, HIT and the Universities in USA, UK, Australia, Japan, Korea Etc.

- UC Berkeley, UCSD, Caltech, UIUC
- University of Sydney, University of West Sydney
- University of Oxford, University of Manchester
- University of Toronto, University of West Ontario
- University of Trento, University of Milan
- University of Kyoto, Tokyo University of Technology
- University of Soul, University of Hanyang
Teaching - Civil of HIT-USYD

- Jointed Program
  - Postgraduate Program: 4+1, Dual Doctoral Degree (1+2+1)
  - Undergraduate Program: 2+2 (Approving by MOE from 2013)

- Jointed Courses
  - Advanced structural steel design, Kim Rasmussen, FAN Feng, ZHI Xudong
  - Composite Structure Design, Gianluca Ranzi, WANG Yuyin, YANG Hua, GUO Lanhui, GENG Yue

- Faculties between HIT and UYSD are carrying out fruitful collaboration
  - USYD: Greg Honcock, Kim Rasmussen, Gianluca Ranzi, Zhang Hao
  - HIT: FAN Feng, Zhang Sumei, Zhi Xudong, Lv Dagang, Wang Yuyin, Guo lanhui, Geng Yue, etc
Research - Lab

- 1 National Engineering Research Center
- 4 Key Labs supported by Ministries & 6 Special Labs
- Labs area of 12,000 M²
- Total Value of Labs are RMB 120 Million Yuan
Research -Lab

◆ Cold Region & Low Carbon Building Technology National Engineering Research Center
Key Laboratory of Structural Engineering and Performance Control (Harbin Institute of Technology), Ministry of Education
Research Lab

◆ Key Laboratory of Structures and Earthquake Engineering, Ministry of Construction
Research - Lab

◆ Key Laboratory of Civil Engineering Materials in Cold Region, Ministry of Construction
Research - Lab

◆ Timber Structure Testing Center, Ministry of Construction (Only 1 in China)
Wind Tunnel and Wave Flume Lab

- Simulation of multi-media interaction of Wind-rain-wave
- Simulation of Deep Sea Conditions
- An Ideal Experiment Center for Building, gymnasiums, bridges, platforms, etc.
### Research Lab

#### Intelligent Monitoring of Structures Lab

![Bridge Image](image1)

![Lab Image](image2)
Research Lab

◆ Blast and Impact on Structure Lab

- Blast-impact simulator
- The largest falling weight impact test equipment in China
Large-space 3D low temperature freeze thawing loading and testing system
Fire Resistance of Structures Lab

- Multi-scale combined fire test furnace (under construction)
- Temperature: 1200 °C; Heating duration: 3hrs
- Space plan of 3.3m by 4m
Research - Lab

High Performance Computation Center

- Dawning TC-4000L Parallel Computing Cluster Systems
- Nodes: 24; CPU: 48; Main Frequency: 2.5G
- Software: ANSYS、ABAQUS、FLUENT、ADINA、SAP2000
Research Lab

- HIT-MOI (USA) Optical Fiber Sensors and Monitoring System
- Sino-Russia Optics Techniques in Structural Health Monitoring
- HIT-Rainbow (USA) Wireless Sensing Techniques in Structural Health Monitoring
- HIT-HK PolyU Civil Engineering Joint Research Center
- HIT-UCSD Real-Time Hybrid Testing
- HIT-Fyfe Co. Joint Lab for FRP Composites and Structures
Research - Focusing on

- Modern Structural Design Theory
- Long-span Spatial Structure
- Strong Earthquake observation and Earthquake Disaster Simulation
- Structural Vibration Control and Health Monitoring
- High-Rise, Composite Structure and Prestressed Concrete Structure
- Structural Wind Engineering
- Geotechnical Earthquake Engineering
- Civil Engineering Materials (FRP, smart & functional, etc)
Goals

- Cultivation **Elites in Civil Engineering** for China and the World!
- Persuing for a **World-class School** of Civil Engineering!
Looking forward to comprehensive collaboration!

Thanks

http://civil.hit.edu.cn