Faculty Positions Available at Harbin Institute of Technology: Harbin, China

Harbin Institute of Technology (HIT), subordinated to the Ministry of Industry and Information Technology (MIIT), was founded in 1920 and is mutually constructed by MIIT, Ministry of Education (MOE) and Heilongjiang Province. HIT is one of the first universities supported by the “211 Project”, “985 Project” and “2011 Project” of Chinese government. Over more than 90 years, HIT has developed into a distinctive, multi-disciplinary, open, research-based national key university. Our goal is to become a world-class university. You are welcomed to join us to realize your dream.

Requirements and Responsibilities

HIT invites applications worldwide for full-time faculties. Responsibilities include participating in teaching at the undergraduate and graduate levels and establishing high-level research programs. Candidates with a PhD degree may apply suitable positions referring to the introduction to the research areas of each school or department below. All positions include three levels--lecturer, associate professor and professor. Especially, exceptional candidates who meet relevant criteria will be recommended and encouraged to apply for competitive talent programs as follows:

A. 1000 Plan Professorship for Young Talent

Eligible candidates should be under the age of 40 and work in any field of natural sciences or engineering technology, with a PhD degree awarded in a world-renowned institution with at least 3 years of overseas research experience. Candidates should also be holding a full-time teaching or research position in renowned universities, research institutions, or R&D departments in famous overseas enterprises at the time of application.

B. “Young Experts” Program Professor & Associate Professor

Candidates should be under the age of 35 (for Professor positions) or 30 (for Associate Professor positions), with a PhD degree in a renowned institution and with outstanding track record.

Compensation and Benefits
General compensation and benefits are in line with current standards of HIT. Successful candidates who are inducted into “1000 Plan Professorship for Young Talent” or “Young Experts” Programs can be provided with a treatment according to the programs including a start-up fund (including relocation and housing allowance) based on their research areas and academic experience.

Application Procedure

The posted positions are all immediately available until filled. Application package including a cover letter declaring the targeted school/research area and position, a detailed resume, a publication list, a research and teaching plan should be sent by email with the title of “Faculty Application from Overseas”. A prescreening decision reply will be provided in 10 working days upon the application is received.

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Introduction to schools and departments:

Department of Astronautics and Mechanics (DAM)

Founded in 1952, DAM has become one of the top teaching and research centers of mechanics in China. Existing department programs include engineering mechanics, solid mechanics, and dynamics & control. In 2012, the overall mechanics program in HIT ranked No. 1 in China.

Exceptional applicants in any discipline related to mechanics are encouraged to apply. Areas of especial interest to the department include micro-mechanics, mechanics of materials, fracture mechanics, fatigue, damage mechanics, elasto-dynamics, wave mechanics, plasticity, phase transformation, structural dynamics, experimental mechanics, computational mechanics, dynamics and control, flight mechanics, fluid mechanics and aerodynamics.

School of Electronics and Information Engineering (SEIE)

The school of Electronics and Information Engineering is now composed of 4 departments, i.e. dept. of Communication Engineering, dept. of Electronics Engineering, dept. of Information Engineering and dept. of Microwave Engineering.

Main research areas of SEIE include:

- UWB technology, cognitive radio, satellite communication, wideband data link and spread spectrum technology, hybrid carrier access technology, wideband trunked radio system.
- HF ground wave and skywave radar technology and application, microwave radar imaging and array signal processing technique, DSP theory, and general radar signal processing.
- Space-borne remote sensing image processing, image/video compression and transmission, multi-source spatial information collaboration processing and applications.
- Metamaterials & cloaking, antenna, EMC & EMI, wave propagation, RF/microwave/millimeter wave/THz components and system applications, bioelectromagnetics, Computational electromagnetics.

Applicants are required with the PhD degree and the research background
mentioned above are highly expected. Also, if the applicants have the working experiences in the world's top 150 University, they will be firstly considered.

School of Mechatronics Engineering (SME)

Mechanical Engineering, founded in 1920, is a discipline with the longest history in HIT, and also one of the first established related disciplines in China. After decades of development, the School currently comprises 15 departments and research centers. The discipline of Mechanical Engineering ranked No. 2 in 2002 and No. 4 in 2006 respectively in the academic assessment by the Ministry of Education, and was approved as the national key discipline in 2007.

SME is now recruiting faculties to lead the following areas: Extreme operating robot and its autonomous behavior and interaction control technology, Precision and ultra-precision manufacturing theory and related technologies, Mechanical systems and design theory and technologies of key infrastructure components, Extreme environmental simulation and system integration technologies, Digital design and manufacturing of complex systems and life management, Micro-nano manufacturing theory and related technologies, Bio-mechanical engineering theory and application technologies, Process management technologies for sustainable manufacturing.

School of Materials Science and Engineering (SMSE)

SMSE consists of Department of Materials Science, Department of Materials Engineering, Department of Welding Science and Technology, Department of Materials Physics and Chemistry and Department of Information Materials and Technology. In addition, the school has a State Key Laboratory of Advanced Welding and Joining, a National Key Laboratory of Precision Hot Processing of Metals, a National Key Laboratory of Space Environmental Materials Behavior and Evaluation Technology, an Analysis and Measurement Center and a Teaching Experiment Center. The School currently has nearly 200 faculties, including 4 academicians of Chinese Academy of Engineering, one "Thousand-Talent Project", 83 full professors and 80 associate professors. More than 90 % staffs hold doctoral degrees. Currently, there are 2065
students, including 1115 undergraduates, 543 master students and 407 Ph. D. candidates. Since 1993, the school has carried out hundreds of national research projects; and obtained 12 national scientific awards.

The main research fields in the school involve advanced structural and functional materials, composite materials, space materials and evaluation, special plastic forming, precision casting, welding and joining of materials, surface engineering, numerical simulation and control of materials processing.

**School of Energy Science and Engineering (SESE)**

SESE was established in 1994, which consists of 2 departments, 7 institutes and 3 undergraduate programs. SESE has a strong reputation in teaching and scientific research, including a national first-class key discipline, 2 national defense key disciplines, 2 provincial-level key disciplines, a national engineering laboratory, 3 provincial key laboratories, a provincial engineering center, a post doctor working station, a doctoral degree program affiliated with the first-class discipline, 6 doctoral degree programs affiliated with the second-class sub-disciplines, 6 master’s degree programs, a national lecturing exemplary on mechanics, a national exemplary laboratory, a innovative research team in NSFC, an innovative research team in university, an innovative research team in national defense industry, a national teaching team, 2 national excellent courses and 2 provincial excellent courses.

SESE is now recruiting applicants leading the research field of Power Engineering and Engineering Thermal Physics.

**School of Electrical Engineering and Automation (SEEA)**

SEEA was founded in 1993 and consists of 2 departments, Department of Automatic Test and Control, and Department of Electrical Engineering. SEEA has 241 faculties, including 85 professors, 83 associate professors and 72 lecturers. Currently, there are 2702 students enrolled in the school including 1758 undergraduates, 543 master students and 401 doctoral candidates. SEEA has one national first-grade key discipline and three national second-grade key sub-disciplines. In National key discipline evaluation 2012, Instrument Science and Technology Discipline ranked at
the 4th and Electrical Engineering Discipline ranked the 6th.

SEEA is now recruiting applicants leading the following research fields: precise optoelectronic technology, optoelectronic information science and engineering, instrument and measurement, information technology and computer science, electrical machine and apparatus, power system and automation, power electronics and electrical drives, theory and advanced technology of electrical engineering, high voltage and insulation technology.

**Department of Chemistry (DOC)**

The mission of the Department is to translate innovative scientific studies into tomorrow’s industrial outcomes. The Department offers three undergraduate programs, four master degree programs, and two Ph.D. degree programs. There are currently 45 full-time academic faculty. The Department has conducted large-scale research projects with funds of millions Chinese Yuan annually. The Department has published more than 500 papers in peer-reviewed journals.

The major research areas cover the applications of laser spectroscopy technology, supramolecular chemistry and molecular imprinting technique, chemoinformatics and computational chemistry, photocatalysis and solar cells, preparation and characterization of functional inorganic materials, synthesis and characterization of novel organic compounds, inorganic-organic hybrid materials, energy convertible materials, space materials and nanomaterials, the simulation and design of functional materials, etc. The Department now encompasses a wide range of facilities like GC/MS, HPLC/MS, XRD, Electrochemistry Analytical System, FTIR, Particle size and Zeta potential analyzer, Raman Spectroscopy, Magnetometer, DSC, TG, etc.

DOC is now recruiting faculties to lead the following research programmes: Computational Chemistry, Nanochemistry, Biochemistry, Nuclear Chemistry, Analytical Chemistry.

**Department of Physics (DOP)**

DOP includes a wide variety of disciplines and specializations, ranging
from very practical, technology-driven fields to the study of the fundamental laws and structure of the universe. The major fields of study include optics; condensed matter; particle physics; nuclear physics and theoretical high energy physics; and plasma physics. It has 87 staff members including 28 professors, 30 associate professors and 29 lecturers.

DOP is now recruiting faculties to lead the following research programmes: optics, condensed matter physics, plasma physics, particle and nuclear physics, or interdisciplinary subjects.

**Department of Mathematics(DOM)**

The department of mathematics at HIT founded in 1958, is one of the six most prestigious industrial mathematics teaching bases in China. Over the decades, the initial department of mathematics has grown into a full range of pure and applied mathematics programs. Mathematics department is proud of its outstanding faculty, including 28 full professors, 30 associate professors and 35 lecturers.

Positions are available in all areas, including but not limited to:

*Pure Mathematics*: Harmonic Analysis, Algebraic Geometry, Algebraic Topology, Hamiltonian Dynamic System, Nonlinear PDE, Differential Geometry and Mathematical Physics, etc.

*Computational Mathematics*: Operations Research and Optimization, Mathematical Model, Biomathematics, Discrete Geometry, Symbolic Computation, Cryptology and Communication, etc.


*Applied Mathematics*: Image Processing, Geophysics, Seismic Exploration, Remote Sensing, etc.

**School of Management(SOM)**

SOM is one of the earliest four management schools established in mainland China. The school offers MBA, MPA, MPAcc, MS in professional finance and engineering programs, EMBA and doctoral programs. We provide strong support for top quality research and are
interested in candidates whose research areas are listed as follows.


Public Administration: General Administration, Public Policy, Government Governance, Infrastructure, Sociology. Other disciplines related to management science and economics.

School of Humanities and Social Sciences (SHSS)

SHSS has developed a range of undergraduate and postgraduate programs. The school offers Doctorates of Sociology, Social Engineering and Management; Master’s Degrees of Sociology, Philosophy of Science and Technology, Marxist Philosophy, International Economy and Trade, Political Economy, and World Economics. The school is especially dedicated to the enhancement of Ph.D. programs. Successful candidates will be expected to contribute to the development of one or more of those aforementioned areas, especially playing an important role in research and academic leadership by utilizing a wide variety of internal and external resources.

The school invites applicants dedicated to research in the areas of Western Philosophy, Philosophy of Science and Technology, Marxist Philosophy, Theoretical Economics, Applied Economics, Sociology, and Demography.

School of Civil Engineering (SCE)
SCE was founded in 1920, which is one of the earliest programs established in China. There are in total 100 faculties, including 38 professors and 40 associate professors, including 4 academicians of the Chinese Academy of Engineering. Currently about 1,200 students are enrolled in the school, including 700 undergraduates and 500 postgraduate students.

The school invites applicants dedicated to research in the areas of Steel structures and wood structures, Concrete structures and masonry structures, Geotechnical engineering & urban underground space engineering, Disaster prevention and mitigation engineering & bridge engineering, Mechanics & energy engineering structures and Civil engineering materials.

**School of Municipal and Environmental Engineering(SMEE)**

SMEE was founded in 1996. The history of the school can be traced back to 1952 when the earliest majors of water and waste water treatment engineering were established in China. Now the school has become a vital base of high level talents and scientific research. Many key disciplines rank advanced nationally. Currently, the school has a faculties of 153, including 41 professors, including 3 academicians of Chinese Academy of Engineering and 4. SMEE has developed exchange programs and close cooperative relations with dozens of famous universities and institutions in USA, UK, Canada, Finland, Denmark and other countries and regions and it has established an overseas academic base with the University of New South Wales in Australia.

The school is now recruiting faculties to lead the following research areas: Waste solid treatment; Protection, optimization and utilization of urban water resources; Principle and technology of Atmospheric Pollution control; Environmental pollution ecological restoration; Fundamental issues of flow and heat transfer in HVAC and Fluid Machinery; Building energy saving and district energy system; New energy and renewable energy.

**School of Architecture(SOA)**

The discipline of architecture in HIT is one of the earliest in China. SOA
has four undergraduate specialties including Architecture, Urban-Rural Planning, Landscape Architecture, and Environmental Design which are first-level disciplines. Among these specialties, Architecture and Urban-Rural Planning ranked Grade in national assessment on undergraduate disciplines. The School has been granted the right to confer Ph.D and Master’s degrees in first-level disciplines of Architecture, Urban-Rural Planning, Landscape Architecture, and has established Postdoctoral S&R Station for two first-level disciplines of Architecture and Urban-Rural Planning.

Exceptional applicants in any discipline related to Architecture, Urban-Rural Planning, Landscape Architecture, and Environmental Design are encouraged to apply.

**School of Transportation Science and Engineering (STSE)**

STSE was founded in 1995 by joining five departments: Dept. of Road and Railway Engineering, Dept. of Bridge and Tunnel Engineering, Dept. of Transportation Engineering, Dept. of Transportation Materials Engineering and Dept. of Transportation Information and Control Engineering. The school hosts a Post-doctoral Research Station, Doctoral and Master’s degree Programs in the First-level Discipline of Transportation Engineering; Doctoral and Master’s degree Programs in the Second-level Discipline of Bridge and Tunnel Engineering; and 3 Undergraduate Programs (Road and Bridge Engineering, Transportation Engineering, and Transportation Equipment and Control Engineering). At present, the School has 15 professors, 27 associate professors, about 600 undergraduate students, over 200 master students, over 80 doctoral candidates, and 12 international students.

Each department recruits applicants in related research areas.

**School of Computer Science and Technology (SCST)**

SCST was founded in 1956, which is one of the earliest computer disciplines of China. In 1957, the first computer of the nation was developed and the master students were recruited in the same year. The school boasts the national first-level key discipline of computer science and technology, and has 7 doctoral degree programs. The school ranked
No.5 in the Discipline Assessment of Ministry of Education in 2002 and 2007, and No.4 in 2012. In the Academic Rankings of World University (ARWU) in 2010 and 2011, computer science discipline entered top 100. In 2011 and 2012, it ranked top 1% in the ESI global computer science. In 2010 and 2011, we won the first place in the national teaching satisfaction rankings of computer science discipline.

Disciplines and research directions with openings are Intelligent Interface and human machine interaction, Computer network and information security, Microelectronics and solid-state electronics, Pattern recognition and machine learning, Server computing and social computing, Computer application technology, Natural language processing, Computer architecture, Bioinformatics, Database, Robotics, etc.

National Pilot School of Software(NPSS)

Established in 2000, NPSS was approved by the Ministry of Education and the State Planning and Development Committee as one of the 35 National Pilot Schools of Software in China. The school makes full use of the comprehensive advantages, resources and the superiorities in computer discipline of HIT to broaden the way of education through the wide international cooperation. Taking the “Internationalization, Industrialization, High-Quality and High-Speed” as its ethos, the school aims to cultivate leading IT industrial software elites with the international competency required in the 21st century. NPSS ranked No.3 among 35 National Pilot Schools of Software in the assessment of the Ministry of Education in 2006, and the discipline of Software Engineering ranked No.7 in the academic assessment of the Ministry of Education in 2012.

NPSS is now recruiting applicants to lead the following research programs: Software Service Engineering and Service Computing, Software Architecture and Software Engineering Technology, Software Confidence and Reliability, Intelligent Software Theory and Machine Learning, Business Intelligence and Data Mining, and Internet of Things Engineering.

School of Foreign Languages(SFL)
SFL was founded in 1982. The School currently offers 5 Bachelor's Degree Programs (English, Russian, Japanese, English-Mechanical Design, Manufacturing and Automation, and Russian- Flight Vehicle Design and Engineering) and 5 Master's Degree Programs (Foreign Linguistics and Applied Linguistics (Russian), Foreign Linguistics and Applied Linguistics (English), English Literature, Russian Literature, Translation).

SFL is now recruiting Faculty members to lead the following disciplines:
A. Translation Studies;
B. Linguistics;
C. Literature (applicants who are familiar with Australian and Irish Literature enjoy the priority).

School of Law(SOL)

SOL was founded in 2005 which is one of the youngest yet most dynamic schools of HIT. The Law School is dedicated to promoting the level of research and enhancing international exchanges and cooperation, by forging its characteristic of high starting point and internationalization. To be one of the top law schools in China with international reputation is one of the goals of the SOL.

In order to expand the further development, SOL is now recruiting applicants from all the majors in Law. Warmly welcome the domestic and overseas talents in the field of law to join us. At the moment, SOL has many job offers including academic and administrative position open to the talents worldwide.

School of Chemical Engineering and Technology(SCET)

SCET was founded in 2008 based on the original department of Applied Chemistry, which was one of the four major departments established in the early 1930’s at HIT. At present, SCET ranks top 8 in a recent national discipline performance evaluation. SCET has 25 professors, 22 associate professors and 20 lecturers in six departments, including Applied Chemistry (Electrochemistry), Polymer Science and Engineering, Chemical Technology, Energy Chemical Engineering, Bio-Chemical Engineering, and Catalysis Science and Technology. A total lab space of
nearly 10,000 sqm is available in a new building to host advanced facilities for teaching and researches. Both Bachelor, Master and PhD Degree are offered in SCET.

SCET is now soliciting outstanding applicants to lead researches in programs like chemistry, chemical engineering, materials science and technology, and some newly emerging interdisciplinary areas.

School of Food Science and Engineering(SFSE)

SFSE was founded in 2005 as a new strategic development of the University. The school consists of four departments and currently offers one Doctoral Degree Program (biochemical Engineering), two Master’s Degree Programs (Biochemical Engineering and Food Science), and one Bachelor’s Degree Program (Food Science and Engineering). SFSE currently has 8 Professors, 9 Associate Professors, and 12 Lecturers. The School occupies nearly 8000 sqm purpose-built space, and has established several platform facilities.

SFSE is now recruiting faculties to lead the following research programs: Food engineering/chemical engineering/biochemical engineering, Food chemistry/analytical chemistry, Food science.

School of Life Science and Technology(SLST)

SLST was founded in 2011 as a new strategic development of the university. The school currently offers two Degree Programs, Life Science and Biomedical Engineering at Bachelor and Master Levels, and admits about 30 PhD candidates a year. SLST currently has 8 Professors, 17 Associate Professors, and 14 Lecturers. The School occupies nearly 7000 sqm purpose built space, and has established several platform facilities.

SLST is now recruiting applicants to lead the following research programs: Gene-function research, Cell biology, Macromolecular crystallography, Micro-biotechnology, Nano-biotechnology, and Image processing and analysis.
Academy of Fundamental and Interdisciplinary Sciences (AFIS)

AFIS, founded in 2005, is an endeavor of HIT to build the fundamental, interdisciplinary and cutting-edge disciplines, and to create a free academic environment for cross-discipline integration. Till now, 14 research institutes have been built in the academy, including the Natural Science Research Center, the Bioinformatics and Genomic Science Research Center, the Nano Technology Research Center, the HyTech Research Center, the Institute of Organic Chemistry, the Institute of Chemistry and Energy Material Innovation, the History of Science and Technology and Development Strategy Center, the Automotive Electronic Engineering Center, the High Performance Computing Center, the High-End Fault Tolerant Computer Testing Center, and so on. Excellent scientific and research atmosphere and investment about 0.2 billion RMB of equipment is established after ten years’ construction, and 80 projects have been granted by the National Natural Science Fund have been granted since 2010. A scientific research fund of over 40 million RMB was attained in 2011.

Members of the “National Thousand-elite Program”, Changjiang Scholars, winners of the “National Outstanding Young Scientists Research Foundation” Award and other high-level talents including excellent doctors and postdoctors graduating from world-class universities at home and abroad are wanted in the following areas:

Mathematics: various research directions in pure mathematics, statistics;
Physics: theoretical physics, atomic and molecular physics, astrophysics;
Chemistry: inorganic chemistry, analytical chemistry, organic chemistry, physical chemistry (theoretical chemistry);
Nano Technology: Biology, energy, materials, environmental nano technology, polymer chemistry and physics;
History of science and technology