

Contents

- About HOSEI University
- Institute of Integrated Science and Technology (IIST)... English based graduate program

About HOSEI University

Founded in 1880

- Founding Principle: Liberty and Progress
- -Global Policy:
 - Fostering global citizens
 - Promoting campus globalization (Study Abroad, International Students)
 - · Achieving global standard research and educational program
 - · Extending global alumni network
- Funding from MEXT as top global university (2014-)
 - 37 universities are appointed
- -195 partner universities in 32 countries as of January, 2016

Figures

- 30,000 students
- 15 undergraduate faculties, 14 graduate schools, 18 research centers and 3 affiliated junior-high and high schools
- Three campuses (Ichigaya, Tama and Koganei)

Ichigaya:

- Law Letters Business Administration Intercultural Communication Humanity and Environment
- Lifelong Learning and Career Studies
 Engineering and Design
 Global and Interdisciplinary Studies

Tama:

■ Economics ■ Social Sciences ■ Social Policy and Administration ■ Sports and Health Studies

Koganei:

■ Computer and Information Sciences ■ Science and Engineering ■ Biosciences and Applied Chemistry

Science and Engineering Programs (Koganei)

College of Engineering: Founded in 1950

- Faculty of Science and Engineering
 - Mechanical Eng., Electronics and Electrical Eng., Applied Informatics, Industrial and Systems Eng., Advanced Sciences (Liberal Arts and Sciences)
- Faculty of Bioscience and Applied Chemistry
 - Frontier Bioscience, Chemical Science and Technology, Clinical Plant Science
- Faculty of Computer and Information Sciences
 - Computer Science, Digital Media

All faculties offer high standard MEXT accredited educational program

International Students

International students enjoy their research as well as new cultural experiences





Program for Faculties

HIF Foreign Scholars Fellowship

- Invites young scholars from abroad to apply to the HIF Fellowship program to carry out non-degree research programs at Hosei University.
- The grantees receive a monthly stipend and economy class transportation expenses for travel to and from Japan.
- The HIF fellow will be also provided with accommodation and shared office space.

English Programs

(Liberal Arts, Humanities and Social Sciences)

- Faculty of Global and Interdisciplinary Studies
 - Provides a curriculum of liberal arts courses in English
- Exchange Students from Overseas Program (ESOP)
 - Courses on Japanese Society and Related Topics
 Modern and Contemporary History of Japan, Japanese Literature,
 Japanese Youth and Popular Culture, Discover Japan, Marketing in Japan,
 Cultural Diversity in Japan, "Cool Japan"s Nation Brand,
 Japanese Thought, Japanese Management Systems,
 International Cooperation of Japan, etc.
 - Japanese Language Classes
- MBA (Sept. 2015-)
- · Global Business Program (GBP) (Sept. 2016-)
- Sustainability Co-Creation Program(SCOPE) (Sept.2016-)

English Program (Science and Engineering)

Graduate School, Computer and Information Sciences

 Parallel Computing and Architecture, Software System Science, Virtual Reality and Multimedia, Cyber-worlds and Intelligent Computing, Software Technology

Institute of Integrated Science and Technology (IIST: Sept. 2016-)

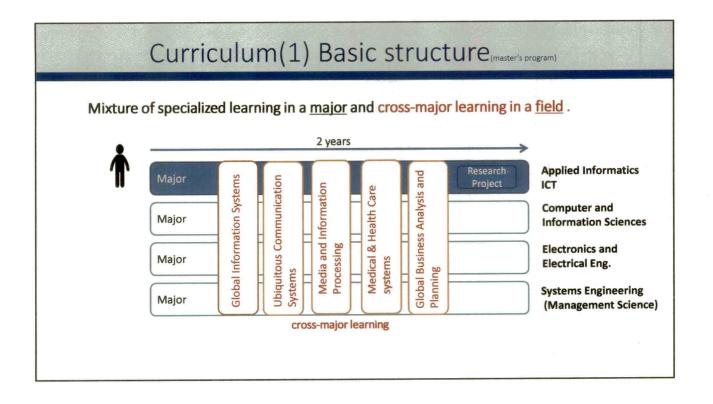
- Global Information Systems (large Scale System Integration)
- Ubiquitous Network and Communication Systems (Internet, IoT & Security)
- Media and Information Processing (Image and signal processing)
- Advanced Medical & Health Care Engineering
- Global Business Analysis and Planning
- . Japanese Reinforcement Classes

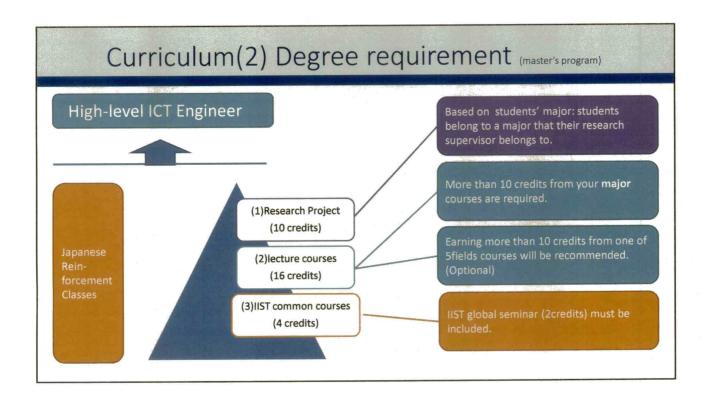
Overview of IIST

Will be launched in Sep. 2016

- Graduate program focusing on "Integrated Science and Engineering"
- All classes and researches are conducted in English.
- Standard terms required to complete the programs:
 - 2 years for the master's program, 3 years for the doctoral program
- Major: O...Offered, ×...Not offered (taught only in Japanese)

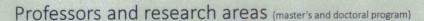
Major	Meng, MSc	Ph.D.
Mechanical Eng.	×	0
Electronics and Electrical Eng.	0	0
Applied Informatics	0	0
Systems Engineering and Science (Advanced Science Track)*	×	0
Systems Engineering and Science (Management Science Track)*	0	0
Applied Chemistry	×	0
Frontier Bioscience	×	0
Computer and Information Sciences	0	O *Name to be changed in April 2016





Academic Activities

- · Outstanding professors including a Thomson Reuters Highly Cited Researcher 2014 and IEEE Life Fellow, IEEE Fellows
- · Conduct high standard researches collaborating with prestigious research institutions such as NTT, Hitachi or JAXA
- · Graduate students are encouraged to present their research work at international conferences (100,000Yen support for their paper presentation)



Wide range of research areas

- Please refer to the following web site: http://iist.hosei.ac.jp/faculties/
- Electrical and Electronics Engineering



Nonlinear circuits, Neural networks, Basic theory of artificial intelligence Swarm intelligence, Power electronics



Akira YASUDA

Electronic circuit engineering AD, DA Converter, Analog Integrated Circuit Digtal Speaker



Junji YAMAUCHI

Optical Communication Systems Design of optical data transmission, Surface antenna



Intelligent Robotics, Design and development of rescue robot



Communication Engineering and Robotics, High speed tera Hertz devices multi-legged robot computation



Yoshihumi OKAMOTO Electrical Machine,

Electro magnetic device design, High speed

Professors and research areas (master's and doctoral program)

Wide range of research areas

- Please refer to the following web site: http://iist.hosei.ac.jp/faculties/
- Applied informatics



Shigery AKAMATSU

Human information processing, Man machine Interface facial image analysis CT image processing Internet protocol, and synthesis



Image processing, Medical Imaging High performance medical imaging, xray detector.



Data networks and security Cyber security, Web service, Privacy preserving systems



Ubiquitous networks, Wireless networks IoT systems, Intra-body communication



Distributed system Biomedical signal design Web Service, Semanitc Web. Collective Intelligence



processing Ubiquitous health care system, biosignal big data processing

Professors and research areas (master's and doctoral program)

Wide range of research areas

- Please refer to the following web site: http://iist.hosei.ac.jp/faculties/
- Applied informatics



Lei I I

Intelligent information eng., Algorithms Fast Algorithms, Parallel Algorithms, Soft Computing



Computer Sciences

Computation, Parallel/Distributed Algorithms, Computer Aided Education



Hitoshi IYATOMI

Intelligent information processing Image recognition, computer vision, machine learning, Medical engineering



Makoto HIRAHARA

Biological information Programming processing Vision, Memory, Neural networks, Machine learning



Kenji MIYAMOTO

languages User Interfaces, Software engineering

Professors and research areas (master's and doctoral program)

Wide range of research areas

- Please refer to the following web site: http://iist.hosei.ac.jp/faculties/
- Systems Engineering



Financial engineering Derivative pricing, Stock market

analysis, Black-

Scholes formulas



Algebraic geometry Information Coding theory and practice



Mitsuhiro KIMURA

Reliability engineering Reliability modeling, Software reliability, Reliability and Quality data analysis computation



Operations research, High-performance computing Discrete event systems, scheduling, geographic



Yoichi NAKAMURA

Economic engineering Economic statistics, System of national accounts

Professors and research areas (master's and doctoral program)

Wide range of research areas

- Please refer to the following web site: http://iist.hosei.ac.jp/faculties/
- Systems Engineering



Tatsuyoshi MIYAKOSHI

Applied financial analysis Financial crisis, Japanese and Asian financial system



Nonlinear integrable systems Integrable systems, Difference equations, Cellular automata,



Nobuyuki TAMURA Applied probability

theory, Operations research Optimal maintenance policy, Degradation process modeling, imperfect maintenance



Kazuhiro YASUDA

Probability analysis, Mathematical finance Stochastic differential equations, Derivative pricing, Portfolio optimization

Professors and research areas (master's and doctoral program)

Wide range of research areas

- Please refer to the following web site: http://iist.hosei.ac.jp/faculties/
- Computer and Information Sciences (Computer Sciences)



Mina AKAISHI

- Research area:
- Narrativity based Information Access
- •Management/Analysis/Visualization for Knowledge Media
- *Historical Knowledge-Based Science



Satoru S. KANO

- •Ph.D. (Physics)
- Research area:
- Nonlinear Laser Spectroscopy



Satoshi OBANA

- Research area:
- Cryptography
- Information Security



Nobuhiko KOIKE

- Research area:
- Software Engineering

- Professors and research areas (Computer Sciences)



Akira SASAKI

- Research area:
- Programming Languages
- Domain Specific Languages
- Attribute Grammars



Runhe HUANG

- Research area:
- Artificial Intelligence
- •Machine Learning
- http://cis.k.hosei.ac.jp/~rhuang/



Yuji SATO

- Research area:
- Evolutionary Computation
- Machine Learning



Yamin LI

- Research area:
- Computer Architecture
- Parallel and Distributed Systems
- Mobile Ad Hoc Networks
- http://cis.k.hosei.ac.jp/~yamin/



Toshio HIROTSU

- Research area:
- •Internet
- Operating System
- Distributed Computing
- Ubiquitous Computing



Shaoying LIU

- Research area:
- Software Engineering
- •Formal Engineering Methods
- •Intelligent Software Engineering
- •http://cis.k.hosei.ac.jp/~sliu/

- Professors and research areas(Media Sciences)



Katunobu ITOU Research area: Speech Recognition •Multi-Modal Dialog System Speech Interface



Yasunari ZEMPO Research area: Computational materials science Development of computational techniques for material design and property prediction ·Large-scale parallel computing



Takafumi KOIKE •Media technologies connected between real world and cyber world

•Real-time computer graphics

Augmented reality

·Computational photography

•3D imaging



Toshihisa NISHIJIMA

 Doctor (Engineering) Research area:

Coding Theory

•Information Theory



Vladimir SAVCHENKO Research area: Geometric Modeling Animation http://www.k.hosei.ac.jp/~vsavchen/



Hiroshi HANAIZUMI Research area: •Image Processing Related site:

- Professors and research areas (Media Sciences)



Satoru FUJITA

Research Areas

Multi-agent systems

·Human probing, IoT

Web services



Shuichi YUKITA

Research area:

•Cellular Automata Theory

Algorithmic Mathematics

Mathematical Visualization



Hiroshi HOSOBE

Research area:

User Interfaces

•Information Visualization

Computer Graphics

Constraint Programming



Toru WAKAHARA

Research area:

•Intelligent Image Processing

Pattern Recognition



Jianhua MA

Ubiquitous Network and Computing

Smart Object, Space and Service

Autonomic and Trusted System

•http://cis.k.hosei.ac.jp/~jianhua/



Kaoru UCHIDA

Pattern recognition and its real-world applications, Biometrics Business innovation through computer and information sciences

Graduate School of Science and Engineering [Doctoral only]

Kazuvoshi ARAI

materials

(Major in Mechanical Engineering

- structural materials, Strength of
- I High velocity impact, Sand erosion,

Hoshio TSUJITA

- Kiyotaka SAKINO I Fracture mechanics. Material properties
- I Strength of materials, Impact engineering

Chiharu ISHII

- I Control engineering, Medical robotics, Rehabilitation engineering, Assistive technology
- Development of taparoscopic surgical robot, power assist suit, myoelectric prosthetic hand and its sensory feedback system, etc.

- I Computational fluid dynamics, Fluid machinery
- Turbomachinery, Highly loaded turbine cascade. Secondary flow loss reduction

Hiroaki OSAWA

- I Advanced materials engineering
- Light metal sheet forming, Superplasticity, Non-Ferrous alloys

I Reacting fluid dynamics, Gas furbine

combustion, Liquid atomization and

diagnostics and combustion, Low emissions gas turbine technology

Low NOx combustion, Spray

Tadashige KAWAKAMI

I Combustion engineering, Energy conversion engineering

Académic Areas | Keywords

| Combustion, Internal combustion engine, Emission, Blended fuel

Shigeru HAYASHI Motohisa HIRANO

- I Nanotribology, Alemisfics of friction, Computationa mechanics
- · Atomistic simulation of friction. Atomic-Computational mechanics of bulk

Gaku MINORIKAWA

- Mechanical acoustics, Environmental engineering, Aviation technology
- Noise control, Aeroacoustics, Sound quality, Small fain design, Aircraft

- design, 3D printing

Major in System Engineering (Advanced Sciences and Engineering: Doctoral Only)

I Academic Areas I Keywords

Sadanori OKAMURA

- I Galactic astronomy, Observational cosmology
- I galaxies, clusters of galaxies, early universe, astronomical image processing

Takashi KASUGA

- I Radio astronomy, Developing highly detection technologies
- Radio astronomy, Developing highly sensitive electromagnetic wave detection technologies

Yutaka KATO

- 1 Probability theory, Operations research
- I Analytic Hierarchy Process

Kazuyuki KOBAYASHI

- I Sensing engineering, Sensor signal processing
- I mobile robot, outdoor navigation, intelligent sensing

Shuichi SATO

- Gravitational wave physics, Experimental tests of general theory of relativity
- I Gravitational wave, Laser interferometory

Tetsuo TAMAI

- I Software engineering
- I software modeling, requirements engineering, self-adaptive systems

Isamu SHIOYA

- I Graph grammar, Time series processing, Artificial intelligence
- I Complex systems, Traffic flow, Machine Language processing

Yasuyoshi HORIBATA

- I Simulation engineering, Numerical analysis, Computational physics
- I numerical simulation, optimization, data assimilation, parallel computing

Kaoru SUZUKI

- # Ergonomics, Human factors, Human information sensing
- I Ergonomics, Human factors, Human information sensing

Yukari MATSUO

- 1 Laser spectroscopy, Atomic and molecular physics, Quantum electronics
- I laser spectroscopy of atoms and molecules, laser ablation processes

Makoto TAKIZAWA

- I Information engineering
- Distributed systems, Computer networks, Distributed dabases

(Major in Frontier Bioscience (Doctoral Only)

Academic Areas # Keywords

Masafumi HIRONO

- Cell biology, Molecular biology
- I Cytoskeleton, centrosome, cilia. flagella, cell motility, cell division

Tomoyuki KANEKO

- Biophysics, cell biology
- I Liposome, cell reconstruction, community effect, cardiomyocyte, multi-electrode array, cardiotoxicity, agarose

Ikuro KAWAGISHI

- r Molecular blology, Biophysics
- I Bacteria, signal transduction, receptor, molecular machine, protein structure and function, gene expression

Tsutomu SATO

-) Molecular biology
- I Virus, phage, bacteria, differentiation, DNA recombination, gene expression

Antonio TSUNESHIGE

- I Biophysical chemistry, Protein science, Biomolecular spectroscopy
- Hemoproteins, allostery, protein hydration, macromolecular crowding, protein refolding, microcalorimetry

Naoki MIZUSAWA

- 1 Phototrophic biology
- r cyanobacteria, photosynthesis photosystem, lipid, environmental

Kaneyoshi YAMAMOTO

- Molecular biology, Genome biology
- I bacteria, franscription regulation, gene expression, nucleoide, signal transduction

Yoshiyuki SOWA

- I Biophysics
- 1 Molecular Motor, single-molecule detection

Seiju ISHIKAWA

- Plant clinical science
- Plant fungal disease, Ecologigal control

Kenro OSHIMA

- I Clinical Plant Genomics
- I Phytoplasma, plant pathogenic bacteria, genome

Akio TATARA

- Botanical medicine, Applied entomology, Plant acarology
- # Insect pest control, IPM

Takeshi NISHIO

- Botanical medicine
- Plant virology, Epidemiology

Hiroshi HAMAMOTO

- I Plant pathology, Botanical medicine
- I Plant pathogenic bacteria, molecular diagnostic of plant disease

Toshio SANO

- I Plant nutrition and physiology
- I Plant physiological disease, Mineral transporter, Mycorrhizal fungi, Plant tissue culture

Major in Applied Chemistry (Doctoral Only)

Takaya AKASHI

- I Inorganic materials chemistry, solid state electrochemistry
- solid state reactions, joining, sintering, grain growth, oxidation, high temperature, ionic onduction

Takamasa ISHIGAKI

- I Inorganic synthetic chemistry
- I Ceramic material, Laser synthesis, Wet chmeical synthesis, Photocatalyst, **Optical Material**

Shoichi OKOCHI

- I Environmental chemistry and water science
- I Chemicals fate in environment, characteristics and evaluation methods of water

| Academic Areas | Keywords

- Physical chemistry of functional
- I Organic-inorganic hybrid materials, Biomass-based materials, Device applications

materials, Solid state chemistry, Development of new functional

Atsushi KAWACHI

- I Organo main group element chemistry; organometallic chemistry
- maig group element, silicon, boron, organic synthesis

Kenji SUGIYAMA

- I Synthetic polymer chemistry
- I synthesis and characterization of functionalized polymers

Akihiro YAMASHITA

- I Chemical and biomedical engineering
- Transport phenomena in biological systems and in medical devices, Drug delivery system

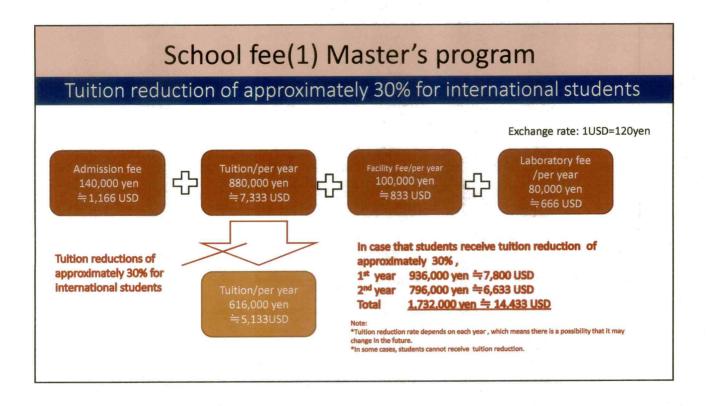
Kazuyuki TAKAI

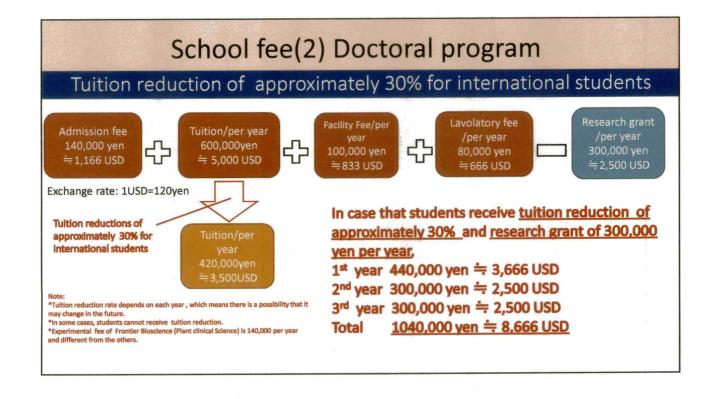
Hironori OGATA

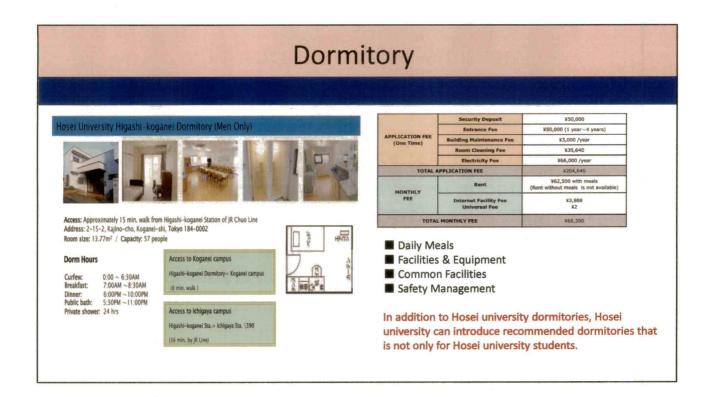
- I Materials Science, Physical Chemistry
- Catalytic activity, Graphene, 2D-Materials, Electronic Properties

Takamasa MORI

- I Chemical engineering, Powder technology
- I sturry, suspension, dispersion control of nano particle







Scholarship

We can support you to apply for some scholarships.

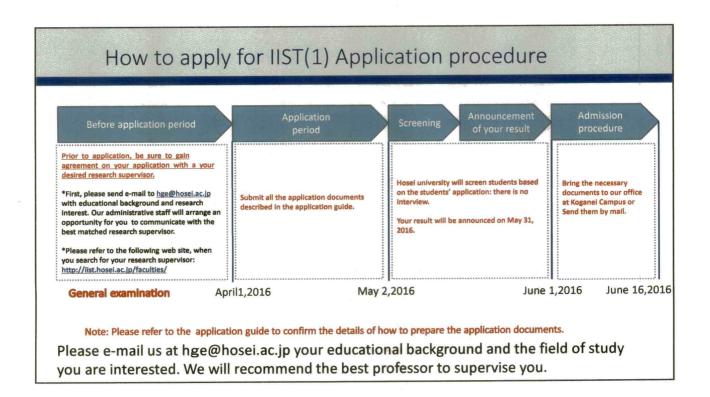
For example:

- Monbukagakusho Honors Scholarship for Privately-Financed International Students(TBD):
 - 48,000 yen per month
 - For your reference: http://www.jasso.go.jp/en/index.html
- Scholarship for Self-Supporting Students (funded by Sato Yo International Scholarship Foundation):
 - 180,000 yen per month
 - For your reference: http://sisf.or.jp/eng/

Part time work opportunities

We can support you to apply for some scholarships.

- 1. Teaching Assistant (TA) 4200 yen/90min class assistance, teaching material preparation
- 2. Research Assistant (RA)2000 yen/60min technical assistance of experiment or system development
- 3. Tutor for international students 4200 yen/90min learning assistant for new international students



How to apply for IIST(2) Eligibility

[Master's Course]

Those who meet all of the following criteria ((1) - (3)):

(1) Those who meet one of the following criteria (a - c):

a. Those who have been conferred, or are expected to be conferred by the end of August in 2016,

Bachelor's degree in foreign countries

b. Those who have been conferred, or are expected to be conferred by the end of August in 2016,

Bachelor's degree in Japan

c. Those who are considered to have academic ability equivalent to a Bachelor's degree or higher by

IIST Steering Committee (tentative name) of the graduate school.

(2)Those who wish to and are able to study all subjects in English after admission

(3)Those who meet one of the following criteria in English proficiency or equivalent proved by the university:

a. TOEFL Official Score Report – iBT72 or higher

b. TOEIC Official Score Certificate - 680 or higher

c. .IELTS Official Test Report Form - 5.5 or higher

[Doctoral Course]

Those who meet all of the following criteria ((1) - (3)):

(1) Those who meet one of the following criteria (a - c):

 a. Those who have been conferred, or are expected to be conferred by the end of August in 2016,

Master's degree in foreign countries

b. Those who have been conferred, or are expected to be conferred by the end of August in 2016,

Master's degree in Japan

c. Those who are considered to have academic ability equivalent to a Master's degree or higher by

IIST Steering Committee (tentative name) of the graduate school.

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university:

a. TOEFL Official Score Report - iBT72 or higher

b. TOEIC Official Score Certificate - 680 or higher

c. IELTS Official Test Report Form - 5.5 or higher

How to apply for IIST(3)- Application Documents and Fee

[Application Documents]

Master's Course

- 1. Entrance Application Form (Designated Form)
- 2. Plan of Study (Designated Form)
- 3. Academic Transcript
- 4. Certificate of (Prospective) Graduation
- 5. Letters of Recommendation 2 copies
- 6. English proficiency test scores (It must be the score obtained after September 2014. Score sheet must be the original.)
- 7. CD containing a self-introduction video
- 8. Documents to certify your solvency of tuition payment (e.g. bank account balance)
- 9. Documents of application fee payment
- 10. Letter of Certificate (Designated Form)
- 11. Residence Certificate (Jyuminhyo) (issued by city of residence)

http://iist.hosei.ac.jp/admission/

*Application forms will be uploaded soon.

Doctoral Course

Besides the above-mentioned requisite documents of 1) to 11) for Master's course, the below documents are also required:

- 12. Summary of your Master's thesis (English)
- 13. List of Research Accomplishments (Designated Form)

[Application fee] 20,000 Yen

How to apply for IIST(4)- For your reference

For your reference:

http://iist.hosei.ac.jp/topics/

http://iist.hosei.ac.jp/admission/

- -About admission
- *Application forms will be uploaded soon.

http://iist.hosei.ac.jp/faculties/

-About research supervisor

SUMMARY(1)

- Hosei University is one of the oldest and finest universities in Japan
- Selected as a Top Global University Project members
- Promoting globalization under the global policy launched in 2014
 - Seeking for partner Universities around the world.
- English Program named IIST (Institute of Integrated Science and Engineering) will be launched in Sept. 2016

SUMMARY(2)

- · Your application to IIST is welcome.
- Please send e-mail to hge@hosei.ac.jp with your educational background and research interest. Our administrative staff will arrange an opportunity for you to communicate with the best matched research supervisor.
- If you have any question, please contact us at hge@hosei.ac.jp.