APPLICATION GUIDE

International Energy Science Course

DOCTORAL PROGRAM Academic Year 2025 Admission Cycle I – April intake



Graduate School of Energy Science Kyoto University

INTERNATIONAL ENERGY SCIENCE COURSE

DOCTORAL PROGRAM

Application Guide 2025 - Admission Cycle I, April intake

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Please note that this is a guide to admission in 2025 and should not be used for applications for admission in subsequent years. Applicants for 2026 should contact the GSES Administration Office after October 2025 onward to obtain revised guide and forms.

INTRODUCTION

PROGRAM OVERVIEW

PROGRAM: International Energy Science Course DEGREE TITLE: Doctor of Energy Science

STANDARD COURSE DURATION: 3 years full time

LANGUAGE OF INSTRUCTION: English

The International Energy Science Course is an offering from one of Japan's most prestigious universities. It is specially tailored for international students and those who have been educated outside Japan. The Doctoral program provides international students and researchers who have a Master's degree an opportunity to further their studies toward a doctoral degree at Kyoto University. A doctoral degree is awarded to those who have conducted original academic research receiving scholarly supervision by faculty members and successfully defended their doctoral thesis in an oral examination with minimum 4 credits earned from lectures/seminars.

DEPARTMENTS PROVIDING THE PROGRAM

Students will be enrolled in one of the following four departments of the Graduate School of Energy Science, depending on their field of interest.

DEPARTMENT OF SOCIO-ENVIRONMENTAL ENERGY SCIENCE

SES leads research on the effective use of energy and resources and analysis of energy systems in order to build a sustainable social system within the global environment. Core subjects include: introduction to non-carbon energy; engineering in social systems; energy economics; bioenergy; energy environmental impacts; system safety; and energy policy.

DEPARTMENT OF FUNDAMENTAL ENERGY SCIENCE

FES offers fundamental science education and research to contribute to cleaner energy solutions. Core subjects include: chemistry in energy systems; plasma physics; fusion science; and laser-matter interaction.

DEPARTMENT OF ENERGY CONVERSION SCIENCE

ECS conducts education and research on generation, conversion, control and the utilization of various kinds of energy to establish efficient and clean energy systems. Core subjects include: combustion engineering; materials science; fusion and microwave technologies; and plasma physics.

DEPARTMENT OF ENERGY SCIENCE AND TECHNOLOGY

EST conducts education and research on the development of more efficient utilization of direct and indirect energy supplies based on disciplines such as resources, metallurgical, mechanical and electrical engineering. With the aim to establish environmentally friendly process technologies. Core subjects include: materials science; mineral processing; and physics.

Please refer to the website http://www.energy.kyoto-u.ac.jp/en/admission/admission-information/ for the prospectus of the Graduate School of Energy Science or for outlines of the respective departments.

ADMISSION CYCLES

The IESC Doctoral program has two application cycles a year – Cycle I for April enrollment and Cycle II for October enrolment. It is important to apply to the appropriate selection cycle according to the date of your intended enrollment. Offers of admission cannot be deferred to another admission cycle.

Cycles	Degree	Application deadline	Decision notification	Enrollment	Scheduled degree completion
Cycle I	Doctoral	June 14, 2024	August 29, 2024	April 1, 2025	March 2028
Cycle II	Master's Doctoral	December 25, 2024	March 25, 2025	October 1, 2025	Master's: September 2027 Doctoral: September 2028

DOCTORAL PROGRAM

D-I 1. ENROLLMENT CAPACITY

10 students per academic year for the four departments for both cycles.

D-I 2. ENROLLMENT DATE

April 1, 2025

D-I 3. ELIGIBILITY REQUIREMENTS FOR APPLICANTS

Eligibility for applicants, as set forth in the General Rules for Kyoto University, is checked prior to selection process.

Applicants must have both of the following qualifications:

- (1) a. Have obtained, or be expected to obtain a Master's degree (or equivalent) from a recognized higher education institution outside of Japan by the official date of enrollment*, or alternatively,
 - b. Have obtained, or be expected to obtain a Master's degree (or equivalent) from a university in Japan as an oversea student holding a legal status of residence (valid Japan visa).
- (2) Have a competitive proficiency in academic English.

*PLEASE SEE D-I 2

D-I 4. RECOMMENDED ENGLISH LANGUAGE TEST SCORE

Applicant must supply suitable evidence of English proficiency if he/she is not a national of a majority English speaking country, or his/her first language is not English. Recommended scores are 80 or higher for TOEFL iBT and 6.0 or higher for IELTS.

D-I 5. ADMISSION SELECTION PROCESS

Applicants are subject to screening based on the application documents and an interview via online, as well as availability of the field of proposed study in the department. Candidates will be contacted directly and briefed on details of the interview.

D-I 6. ACADEMIC SUPERVISOR

Applicants should specify a faculty member under whose supervision they research. <u>Before proceeding with application</u>, <u>applicants MUST contact a prospective academic supervisor</u> in any of four departments to discuss their application and potential research topic.

D-I 7. OFFICIAL SCORE REPORT OF TOEFL OR IELTS Including Special Home Edition.

Applicants whose first language is not English must submit the official score report of TOEFL iBT (Internet Based Testing) or IELTS Academic Module including Special Home Edition. Test must have been taken within the last 24 months prior to the date of application deadline.

Test scores are to be sent from the testing agents, e.g. ETS or the British Council directly to "The Administration Office, Graduate School of Energy Science, Kyoto University by the application deadline. (i)

TOEFL Institution Code:

 $9501\ KYOTO\ UNIVERSITY, Department\ Code:\ 69\ PHYSICAL\ SCIENCES-ENGINEERING, OTHER$

For a IELTS score holder, the address to be sent is below.

Student Affairs Section,
Administration Office Graduate School of Energy Science,
Kyoto University
Yoshida-Honmachi, Sakyo-ku, Kyoto city
JAPAN
606-8501,

Note: (i) Applicants should arrange to take the test as early as possible to ensure the timely receipt of the score report. It could take up to eight weeks for us to receive the score from the testing agent.

D-I 8. DOCUMENTS REQUIRED FOR SCREENING

Forms are available to download at IESC website:

http://www.energy.kyoto-u.ac.jp/en/admission/admission-documentation/

1	Form A: Application	 With a passport style photo taken within 3 months must be pasted to the boxed area provided in the application form. Please do not use a modified photograph.
2	Form B: Personal history	Educational and vocational background
3	Form C: References(2)	 Form C must be used for recommendation. Submit two recommendation letters by directly emailing us through a referee's official email address by the application deadline. R eferees must be a person such as academic advisors, tutors who are well acquainted with an applicant's academic ability and personality. At the enrollment stage, successful applicants must submit the original Forms in a sealed envelope, signed across the envelope seal.
4	Degree certificates	- Required for both undergraduate/bachelor's and
5	University academic transcripts	 postgraduate/Master's. Only original copies or officially certified duplicates are accepted. Current students should submit a certificate detailing expected graduation and the recent transcripts available. English translation must be provided for documents written in any language other than English. At the enrollment stage, successful applicants must submit all originals of the certificates.
6	Summary of Master's thesis	 Written in English (1-2 pages, 400 - 500 words) on A4-size paper. Please ensure that your document is within the specified limits. Content that goes beyond the limits will not be evaluated. Where no thesis was required in your Master's, provide a summary of a final year project that required research and analytical skills.
7	Research proposal	 Submit a research proposal for your doctoral degree on A4-size paper in English (2-4 pages, 1000 - 1500 words). Please ensure that your document is within the specified limits. Content that goes beyond the limits will not be evaluated. Candidates must discuss their research proposal with their prospective supervisor at Kyoto before submission.
8	Official score report of TOEFL or IELTS including Special Home Edition	 Submit a copy of official score report of EFL test. Please read the D-I 7 carefully to have an original score report sent to us by the application deadline.
9	Photocopy of passport	Submit a photocopy of the applicant's valid passport showing the photograph page.
10	Official copy of certificate of residence	 Residents of Japan should submit a photocopy of their resident card (front and back). Residence certificates are issued at the city/ward office of the registered domicile.
11	Disclaimer	Please read carefully and sign.

D-I 9. APPLICATION FEE

10,000 JPY* *PLEASE SEE **G2**

D-I 10. APPLICATION DEADLINES AND TIMETABLE

Contact to a prospective supervisor: Any time <u>before application</u>
Application deadline: June 14, 2024, 17.00 (UTC+9)

Application fee payment: July 9 – 16, 2024
Interview period: August 19 – 23, 2024
Announcement of results August 29, 2024

Enrolment procedures: November 1 – December 6, 2024

GENERAL INSTRUCTIONS

G1. METHOD OF APPLICATION

Applications are accepted via the online submission system only. Applications are NOT accepted in person at the GSES Office.

The online submission system can be reached through the website: (http://www.energy.kyoto-u.ac.jp/en/admission/admission-information/))
Instructions are available on the website.

G2. APPLICATION FEE

Applicants must complete full payment of the application fee during the designated payment period. The application fee is non-refundable.

<u>Please email a scanned certificate of payment from the completed application page in PDF/JPEG to the administration office (intl@energy.kyoto-u.ac.jp) when the payment has been made.</u>

Applicants will be contacted by email in regard with application fee payment after their application documents are received.

Application fee amount: 10,000 JPY

Payment instruction: Access the website below and follow the instructions for payment. https://www3.univ-jp.com/kyoto-u/en/

For Applicants Residing Outside Japan

Make a payment by credit card (VISA/ MasterCard/ JCB/ AMERICAN EXPRESS/Diners Club INTERNATIONAL).

It is acceptable to use a credit card which carries a name different from that of the applicant (e.g., applicant's parents).

For Applicants Residing in Japan

Make a payment at a designated convenience store, at a financial institution's ATM (Pay-easy), or online with one of the above credit cards or through designated internet banking. It is acceptable to use a credit card or a bank account which carries a name different from that of the applicant (e.g., applicant's parents).

G3. ENROLLMENT PROCEDURES, ADMISSION FEE AND TUITION

ENROLLMENT PROCEDURES

The "Guide to Enrollment" will be emailed to each successful applicant in October.

Those who accept the admission offer and intend to enroll in the course must make payment of the admission fee by the deadline specified in the enrollment guide and obtain a College Student Visa by the commencement of the program. If a student nominates a third party as his/her agent to make a transaction for fee payment, please notify the office.

Those who are currently employed must resign or obtain leave from their current institution/ organization before enrolling in the International Energy Science Course. Similarly, those pursuing studies in other graduate schools must take leave or terminate their graduate study before joining the course.

Admission fee and tuition

Admission fee*: 282,000 JPY (subject to change on admission)

Tuition per annum*: 535,800 JPY (267,900JPY per semester; subject to change during the course of study)

*MEXT scholarship recipients will have admission fee and tuition waived for the designated period of the

scholarship.

G4. GENERAL NOTES

- a. Applicant should inform the Administration Office immediately if he/she wishes to withdraw their application.
- Changes cannot be made to submitted documents under any circumstances. b.
- Personal information such as name, gender, date of birth, contact address, etc. on the application documents is used only for purposes relevant to: (a) admission examinations; (b) admission procedures; and (c) preparations for acceptance of the student.
- In cases where the applicants are physically handicapped and desire special arrangements, please contact the Student Affairs Section, Graduate School of Energy Science, Kyoto University.
- Graduates of university from outside of Japan wishing to enroll in a Kyoto University Graduate School as a research, master's, or doctoral student are required to contact the Admissions Assistance Office (AAO) for a preliminary review before submitting application documents. Please refer to the following url for details:

https://www.kyoto-u.ac.jp/en/education-campus/education-and-admissions/graduate-degreeprograms/how-to-apply/for-graduates-of-overseas-universities

f. In Kyoto University, Security Export Control for the purpose of maintaining the peace and security of Japan and

the international community is conducted in accordance with "Foreign Exchange and Foreign Trade Act". International applicants who fall under any of the conditions set out in said regulations may be unable to enter their desired course or program. Please refer to the following url for details:

https://www.kyoto-u.ac.jp/ja/research/rule/export

G5. CONTACT

Student Affairs Section, Administration Office Graduate School of Energy Science, Kyoto University Yoshida-Honmachi, Sakyo-ku, Kyoto 606-8501 JAPAN

Email: intl@energy.kyoto-u.ac.jp

IESC website: http://www.energy.kyoto-u.ac.jp/en/admission/admission-information/

APPENDIX I: IESC LABORATORY CODE AND KEYWORDS

Code	Laboratory name	Research keywords
S-1	Energy Social Engineering (Engineering for Social Systems)	Social Engineering, Recycle, Eco-Materials, Eco-Education, Effective Use of Energy and Resource
S-2	Energy Economics	Energy Systems Studies, Minerals-Energy Nexus, Policy Studies, Sustainability
S-3	Energy Ecosystems (Biomass Energy)	Bioenergy, Biochemicals, Pyrolysis, Gasification, Supercritical Fluid, Bioethanol, Biodiesel
S-4	Energy and Information (Human Machine Interface)	Human Machine Interface, Human-Machine System, Augmented Reality, Organizational Learning, Intellectual Productivity, Pro-environmental Behavior
S-5	Energy and Environment (Energy Environmental Impact)	Aerosol, Atmospheric Environment, Atmospheric Chemistry, Hazardous Atmospheric Pollutants, Environmental Dynamics, Environmental Impact Assessment, Environmental Remediation
S-6	Energy Policy (KURNS)	Energy Policy, Nuclear Energy, Energy Security, Nuclear Security, Non-proliferation, Energy Best-Mix
S-7	Societal Energy Education (KURNS)	Materials Infomatics, Materials Science, Nucler Fuels, Thermoalectric Materials, Social Energy Education, Disaster Science, Hazard Evaluation, Earthquake Disaster Prevention Strategy
W 4	D. Ol. III	Energy Chemistry, Electrochemistry, Fluorine Chemistry, Molten Salt, Ionic liquid, Na Secondary
K-1	Energy Chemistry Quantum Energy Processes	Battery, Li Secondary Battery Organic Molecular Materials, Photochemistry, Inorganic Semiconductors, Solid State Physics,
K-2	(Materials Chemistry and Physics)	Photophysics, Photovoltaics, Light-Emitting Devices, Chirality
К-3	Functional and Solid State Chemistry	Inorganic Material Chemistry, Crystal Chemistry, Electrochemistry, Solid State Chemistry, Electrochemical Materials, Bio-environment Compatible Material, Functional Material Chemistry
K-4	Plasma and Fusion Science	Magnetically Confined Fusion Plasma, Laser-Driven High Energy Density Plasma, Space Plasma, Nonlinear Physics, Large-Scale Simulation
K-5	Electromagnetic Energy	Fusion Energy, Data Analyses of Plasma Experiments, Measurements and Diagnostics, Theory and Numerical Simulation
K-6	Plasma Physics	Microwave Spherical Torus Experiment, Plasma Wave Physics, Equilibrium, Stability and Transport, Plasma Diagnostics
K-7	High-Temperature Plasma Physics (IAE)	Heliotron J, Control of High Temperature Plasma, Plasma Heating, Plasma Diagnostics, Boundary Plasma Physics and Elementary Processes, plasma turbulence, complex system, data analysis
K-8	Eneregy Optical Properties (IAE)	Nanoscience, Nanotechnology, Solid State Physics, Solar Cell, Quantum Electronics, Data Driven Science
K-9	Interfacial Energy Processes (IAE)	Electrochemistry, Molten Salts, Ionic Liquids, CO_2 Conversion, Silicon Solar Cell, Li Secondary Battery, Na Secondary Battery, K Secondary Battery
K-10	Energy Nano Engineering (IAE)	Nano-science, Nano-materials, Solar Energy, Organic Photovoltaic Cells, Theoretical Biophysics, Statistical Mechanics of Liquids
K-11	Biofunctional Chemistry (IAE)	Nano-biotechnology, Protein Engineering, Chemical Biology, Synthetic Biology, Artificial photosynthesis, Bioenergy, CO2 utilization
K-12	Bioenergy (IAE)	Bioenergy, Biomass, Structural Biology, NMR, anti-HIV Enzyme, Prion Protein, Aptamer, Bioethanol
K-13	Fundamental Neutron Science (KURNS)	Nuclear Reactor Experiment and Analysis, Criticality Safety, Development of Radiation Detection System
K-14	Heat Transport System (KURNS)	Energy Conversion, Thermal Hydraulics, Multiphase Flow, Neutron Radiography, Computatianal Fluid Dynamics, Reactor Physics, Nuclear Data
H-1	Thermal Energy Conversion	Plasma Assisted Ignition, Laser Diagnostics and Image Analysis, Heat transfer in the small scale space craft, Pollutant Emission Control, Alternative Fuels
H-2	Conversion Systems	Thermo-Fluid Science, Combustion Science and Engineering, Alternative Fuels, Computational Fluid Dynamics, Internal Combustion Engine
Н-3	Materials Design for Energy Systems	Nano-/micro-materials, -Strength of Materials, Fatigue, Multiphysics, Metamaterials, Fracture Mechanics
H-4	Design for Functional Systems	Mechanics of Functional Materials, Nonlinear Continuum Mechanics, Elastoplasticity, Nondestructive Evaluation by Ultrasonics, Electromagnetic Methods, and Thermography
Н-5	Advanced Energy Conversion (IAE)	Plasma Science and Technology, Fusion Technology, Fusion Energy Conversion , Fusion Application, Fusion Energy System Design, Social and Environmental Sustainability Evaluation
Н-6	Plasma Energy Conversion (IAE)	Plasma Physics, Fusion Science, Heating and Current Drive, Plasma Diagnostics, Microwave Technology, High power neutral beam technology
Н-7	Functional Energy Conversion Materials (IAE)	Materials Science and Maintenance Technology for Energy Systems, Fusion Reactor Materials, Nuclear Materials, Computational Materials Science

0-1	Devices Physics	Crystal Alignment Techniques, Energy Materials, Thin Film Growth, Superconducting wires
0-2	Process and Energy	Thin Film Growth, Solid-State Battery, Energy Materials and Device Processing, THz spectroscopy
0-3	Materials Process Science	Materials processing, Electrochemical processing, Functional materials, Thin films, Aluminum batteries
0-4	Thermochemistry	Thermochemistry, Crystal Growth, Metallurgy, Eco-friendly Processes, Energy Materials
0-5	Resources and Energy Systems	Energy-saving materials, Multi-scaling materials, Rock engineering
0-6	Advanced Processing of Resources and Energy	Plasticity, Forming Simulation, Advanced Processing of Eco-materials, Material Modeling
0-7	Mineral Processing	Thermal Fluid Engineering, Resources Circulation, Mineral Processing
0-8	Quantum Radiation Energy Science (IAE)	Mid-Infrared and THz Laser, Nuclear Safety/Security, Renewable Energy System/Policy/Implementation
0-9	Physics of Energy Materials (IAE)	Nanomaterials, Quantum Materials, Materials Science, Energy Functional Materials, Solar Energy Utilization, Thermal/Optical Engineering
0-10	Photon Energy Science (IAE)	Laser Application, Nanomaterials, Thin Film, Laser Processing, Hydrogen Energy, Spectroscopy

IAE (Institute of Advanced Energy, Uji), KURNS(Kyoto University,Institute for Integrated Radiation and Nuclear Science)

LABORATORIES LIST FOR INTERNATIONAL ENERGY SCIENCE COURSE

2025 INTAKE

This table shows the availability of student positions for the Academic Year 2023, relevant academic background and potential fields of undergraduate study for applicants' reference. Please note that this is not an exhaustive list of research areas the faculty members cover and also that only laboratories recruiting students for AY2025 are shown on this table.

			lent	position availability			F	lequi Relev	ant l	back	grou	nd <	>			
Department	Code	Research group name	Master's program (Oct) Student	Doctoral program (Apr/Oct) availabil	CIVIL/ENVIRONMENTAL ENGINEERING	MECHANICAL ENGINEERING	ELECTRICAL ENG. & ELECTRONICS	MATERIALS SCIENCE	EARTH RESOURCES	INDUSTRIAL CHEMISTRY	NUCLEAR ENGINEERING	MATHEMATICS & INFORMATION	FORESTRY	WOOD SCIENCE & TECHNOLOGY	BIO-ENVIRONMENTAL SCIENCE	NOTES BY RESEARCH GROUP Remarks, other requirements and/or desirable knowledge etc.
	S-1	Energy Social Engineering (Engineering for Social Systems)	1	1	-	\Diamond	-	•	•	\Diamond	-	-	-	-	-	Also accepting students who are interested in and able to analyze social issues - requiring proficiency in statistics.
a	S-2	Energy Economics	\	1	\Diamond	\Diamond	\Diamond	\Diamond	\Diamond	\Diamond	\Diamond	\Diamond	\Diamond	\Diamond	\Diamond	Energy-systems analysis and design; Energy and resource supply-demand systems; Decision-making and justice.
gy Science	S-3	Energy Ecosystems (Biomass Energy)	1	1	\Diamond	-	-	\Diamond	-	\Diamond	-	-	\Diamond	\Diamond	\Diamond	Undergraduate students in any natural science be accepted, preferentially in biomass-related fields. We study bioenergy and biochemicals from various biomass materials.
Socio-Environmental Energy Science	S-4	Energy and Information (Human Machine Interface)	1	1	\Diamond	-	\Diamond	-	-	-	\Diamond	\Diamond	-	-	-	◇ Cognitive psychology◇ Informatics◇ Statistics
nvironme	S-5	Energy and Environment (Energy Environmental Impact)	1	1	\Diamond		-	\Diamond	\Diamond	\Diamond	-	-	-	-	\Diamond	◆Environmental chemistry/physics
Socio-E	S-6	Energy Policy KURNS	1	1	-	-	-	-	\Diamond	-	\Diamond	\Diamond	-	-	-	Basic knowledge of energy policy and energy scenario study is preferred.
	S-7	Societal Energy Education KURNS	1	1	\Diamond	\Diamond	\Diamond	*	\Diamond	-	\Diamond	\Diamond	-	-	-	
	the Dep	e research fields of natural scien partment of Socio-environmenta of Energy Science for detailed in	l Ener	gy Sc	ience	. Арр	lican	ts are	recoi	nmer	ided t	o refe				
	K-1	Energy Chemistry	<	√	-	-	-	•	-	•	-	-	-	-	-	
Science	K-2	Quantum Energy Processes (Materials Chemistry and Physics)	√	1	-	-	\Diamond	•	-	\Diamond	-	-	-	-	-	
Energy 5	K-3	Functional and Solid State Chemistry	1	1	-	-	-	\Diamond	-	\Diamond	-	-	-	-	\Diamond	
Fundamental Energy Science	K-4	Plasma and Fusion Science	1	1	-	-	•	-	-	-	-	•	-	-	-	It is preferable that students understand the basics of mechanics, electromagnetics, and statistical physics.
Func	K-5	Electromagnetic Energy	1	1	-	-	•	-	-	-	-	•	-	-	-	
	K-6	Plasma Physics	1	1	-	-	\Diamond	-	-	-	-	\Diamond	-	-	-	It is preferable that students understand the basics of mechanics, electromagnetism, and statistical physics.

IAE: Institute of Advanced Energy, Uji KURNS:Kyoto University,Institute for Integrated Radiation and Nuclear Science, Kumatori Laboratories are restricted in accepting students in the context of nuclear non-proliferation.

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			Student	position availability	DI.		Ter	tiary	rieve	ei, no	ot exi	naus	tive			
Department	Code	Research group name	Master's program	Doctoral program	CIVIL/ENVIRONMENTAL ENGINEERING	MECHANICAL ENGINEERING	ELECTRICAL ENG. & ELECTRONICS	MATERIALS SCIENCE	EARTH RESOURCES	INDUSTRIAL CHEMISTRY	NUCLEAR ENGINEERING	MATHEMATICS & INFORMATION	FORESTRY	WOOD SCIENCE & TECHNOLOGY	BIO-ENVIRONMENTAL SCIENCE	NOTES BY RESEARCH GROUP Remarks, other requirements and/or desirable knowledge etc.
	K-7	High-Temperature Plasma Physics IAE	✓	1	-	\Diamond	\Diamond	-	-	-	\Diamond	\Diamond	-	-	-	Knowledge of basic physics is preferable.
	K-8	Eneregy Optical Properties IAE	1	1	-	-	\Diamond	\Diamond	-	\Diamond	-	\Diamond	-	-	-	Knowledge of quantum physics, electrical engineering and material science is preferable.
cience	K-9	Interfacial Energy Processes IAE	/	1	1	-	-	•	-	*	-	-	-	-	-	Knowledge of inorganic chemistry and electrochemistry is preferable.
nergy S	K-10	Energy Nano Engineering IAE	\	<	1	-	•	•	-	*	-	-	-	_	-	
Fundamental Energy Science	K-11	$\begin{array}{c} \textbf{Biofunctional Chemistry} \\ \hline \textbf{IAE} \end{array}$	1	1	-	-	-	-	-	\Diamond	-	-	-	-	\Diamond	Knowledge of organic & inorganic chemistry and biochemistry is preferable.
Funda	K-12	Bioenergy	1	1	-	-	-	-	-	-	-	-	-	\Diamond	-	◇Life Science ◇Biochemistry & Molecular Biology
	K-13	Fundamental Neutron Science KURNS	1	1	1	-	-	-	-	ı	*	-	-	-	-	Knowledge of reactor physics
	K-14	Heat Transport System KURNS	/	/	1	\Diamond	-	-	-	1	\Diamond	-	-	-	-	
	H-1	Thermal Energy Conversion	1	1	-	•	-	-	-	-	-	\Diamond	-	-	-	
e,	H-2	Conversion Systems	1	1	-	•	-	-	-	-	-	\Diamond	-	-	-	Thermo-Fluid Dynamics, Combustion Engineering
n Scienc	Н-3	Materials Design for Energy Systems	1	1	-	•	\Diamond	\Diamond	-	-	-	\Diamond	-	-	-	Strength and Mechanics of Engineering Materials
nversio	H-4	Design for Functional Systems	1	1	-	•	\Diamond	\Diamond	-	=	-	\Diamond	-	-	-	Nonlinear continuum mechanics
Energy Conversion Science	H-5	Advanced Energy Conversion IAE	1	1	-	-	\Diamond	•	-	\Diamond	\Diamond	-	-	-	-	
Er	Н-6	Plasma Energy Conversion IAE	1	1	-	-	•	-	-	-	\Diamond	\Diamond	-	-	-	
	H-7	Functional Energy Conversion Materials IAE	1	✓	-	\Diamond	-	•	-	-	\Diamond	\Diamond	-	-	-	Mechanics and Thermodynamics of Nuclear Materials

IAE: Institute of Advanced Energy, Uji KURNS:Kyoto University,Institute for Integrated Radiation and Nuclear Science, Kumatori Laboratories are restricted in accepting students in the context of nuclear non-proliferation.

			nt	on Ibility			R	lelev	red ant l leve	oack	grou	nd <	>			
nt			Student	position availability	IEERING		NICS					Z		GY	Ш	NOTES BY RESEARCH GROUP
Department	Code	Research group name	Master's program	Doctoral program	CIVIL/ENVIRONMENTAL ENGINEERING	MECHANICAL ENGINEERING	ELECTRICAL ENG. & ELECTRONICS	MATERIALS SCIENCE	EARTH RESOURCES	INDUSTRIAL CHEMISTRY	NUCLEAR ENGINEERING	MATHEMATICS & INFORMATION	FORESTRY	WOOD SCIENCE & TECHNOLOGY	BIO-ENVIRONMENTAL SCIENCE	Remarks, other requirements and/or desirable knowledge etc.
	0-1	Devices Physics		1	-	-	•	•	-	\Diamond	-	-	-	-	-	Basic knowledge of solid state physics, inorganic chemistry, and crystal engineering is preferable.
	0-2	Process and Energy		1	-	\Diamond	•	•	-	\Diamond	-	_	-		-	
	0-3	Materials Process Science		\	ı	-	\Diamond	•	-	\Diamond	-	-	-	-	-	
inology	0-4	Thermochemistry		<	1	-	\Diamond	•	-	\Diamond	-	-	-	-	-	
and Tech	0-5	Resources and Energy Systems		1	-	-	-	*	\Diamond	-	-	-	-	-	-	
Energy Science and Technology	0-6	Advanced Processing of Resources and Energy		>	1	•	-	•	-	-	-	\Diamond	-	-	-	
Energy	0-7	Mineral Processing		<	1	\Diamond	-	\Diamond	•	\Diamond	-	-	-	-	-	
	0-8	Quantum Radiation Energy Science IAE		>	\Diamond	\Diamond	\Diamond	\Diamond	-	\Diamond	\Diamond	\Diamond	-	-	\Diamond	Accepting students who have interests in Renewable Energy Implementation
	0-9	Physics of Energy Materials IAE		>	-	\Diamond	\Diamond	•	\Diamond	\Diamond	-	-	-	-	-	Basic knowledge of solid state physics is preferable.
	0-10	Photon Energy Science IAE		1	-	\Diamond	\Diamond	•	-	•	\Diamond	-	-	-	-	Basic knowledge of quantum mechanics or optics is preferred but not necessarily required.

International Energy Science Course

DOCTORAL APPLICATION DOCUMENTS CHECKLIST

For documents marked with an asterisk (*), please use the designated forms (downloadable from the IESC website (www.energy.kyoto-u.ac.jp/en/admission/admission-documentation/) and print in ISO "A4" size.

1	# List of documents
	1 Form A: Application*
	2 Form B Personal history: EDUCATIONAL AND VOCATIONAL BACKGROUND*
	3 Form C Reference: RECOMMENDATION FORM* by two referees
	4 Official certificates of the bachelor's and Master's degree(or expected graduation)
	5 All higher education academic transcripts, complete or latest (Bachelor's & Master's equivalent)
	6 Summary of Master's thesis (ISO "A4" /letter size)
	7 Research proposal (ISO "A4" /letter size)
	Photocopy of your official score report I have arranged direct delivery of the official score report of TOEFL or IELTS from the ETS or British Council. TOEFL iBT TOEFL PBT ELTS
	8c I am a national of a majority English Speaking country and my first and native language is English
	9 Photocopy of passport
	10 《Residents of Japan only》 Certificate of Residence 'Juminhyo' or photocopy of resident card
	11 Signed disclaimer*

FORM A - DOCTORAL

International Energy Science Course Application for DOCTORAL PROGRAM

Graduate School of Energy Science, Kyoto University

Please type or print in blue or black ink. All sections must be filled out.

1.	INTENDED DAT	E OF ADMISSIO	ON	October	20 year	April	20 year	
2.	NAME	family nama		first name		middle nar	ma	
		family name		nirst name		middle nar	ne	Photo
3.	DATE OF BIRTH		day	year ag	4.	male	female	(4cm×3cm)
5.	NATIONALITY/O	CITIZENSHIP						
6.	COUNTRY OF B	IRTH		C	OUNTR	Y OF RESIDE	ENCE	
7.	HIGHER EDUCA	ATION QUALIF	ICATION	I - BACH	ELORS/	UNDERGRAI	DUATE DE	GREE
	University:						Country	<i>/</i> :
	Department/ Program title:						,	
	Degree title:				Ι"'	tcf wcvkqp<'Grad	duated in	month ""year
	HIGHER EDUCA	TION QUALIF	ICATION	II - MAST	TERS/PO	STGRADUA	TE DEGRE	EE
	University:						Country	<i>i</i> :
	Department/						J	
	Program title: Degree title:							
	Graduation:	Graduated in	month "	' year	V	Will graduate in	1 "month	""'year
9.	CONTACT INFO	RMATION						
٠.	Please include a full		d active em	ail for cont	act throug	rh application a	nd selection	period.
	E-mail address:	. F		,		,		F
	Full postal address: In Chinese characters only if applicable:							
	Telephone:				F	ax number (if a	ınv):	
	•	country code	local nun	nber		`	•	
10.	PROSPECTIVE A	ACADEMIC SUI	PERVISOI	R*				
	*Candidate MUST a	liscuss their resear	ch title with	the prospe	ective supe	ervisor prior to	application	
	Name:					Last contact	date:	
CA	NDIDATE DECLA	RATION						
		erstand that if I ha						nts is complete and ty will not admit me
		date		-		signature		

Major / Course | Degree title doctoral Date of birth (YYYY/MM/DD) months months Remarks Remarks Employment Period (YYYY/MM) years years master's years years years years years years years years years Number of academic years From From To To Date of entrance and completion (YYYY/MM) Personal History: EDUCATIONAL AND VOCATIONAL BACKGROUND From To From From From From From From To To To From To To T_0 To years years years Officially resuired years for graduation years years years years years years Name in Latin alphabet Postal address Total number of years of education Please type or print in blue or black ink. country country country country country country country country Name and address of institution Job Title Tertiary / Higher Education Name in the applicant's own language Location city/province city/province city/province Location city/province city/province Location city/province Location city/province Location city/province Secondary Education Name of Organization / Institution **EMPLOYMENT (if applicable)** Location Location Location Name Name Name II. Senior High School (Upper Name Name Name Name Name Junior High School (Lower Elementary School Education Secondary) Education Secondary) Education Undergraduate Level **EDUCATION** Postgraduate Level **FORM B** II. University University



Student Affairs Section GSES Administration Office Sakyo-ku, Kyoto 606-8501, Japan Tel/fax: +81-75-753-5576/4745 E-mail: intl@energy.kyoto-u.ac.jp

SECTION I

TO BE COMPLETED BY THE APPLICANT

Application for admission requires TWO recommendations from persons well acquainted with your academic ability and" personality. Please fill in this section and give it to the person who will be recommending you.

Degr	ree program:	International Energy Scient	ence Course	Master's	Doctoral	
Vam	e of applicant:	Family name	First na	пе	Middle name	
osta	al address:					
E-ma	ail address:		@			
EC	TION II					
	TO BE CO	MPLETED BY THE REFE	REE			
	Upon comple	tion, please return this form to	the applicant in a	sealed envelope,	signed across the envelope	e seal.
Far	niliarity with the	e applicant				
1.	What is your re	lationship with the applican	nt? Tutor/	Supervisor	Other	
2.	How long have	you known the applicant?		years	months	
3.	How often have ☐ Daily ☐	e you met the applicant? Weekly Month	ıly 🗌 Rare	ely		
4.	What was the n	ature of your interactions v	vith the applicar	nt?		
5.	Please provide	a description of the applic	ant's qualificati	ons for post-	graduate study. In this	regard, pleas
	include an asses	ssment of how this applicant	compares to oth	ers whom you	have taught.	

Continues next page

FORM C

Please comment on the appare important and relevant t	-			any other ren	narks that you	may feel
oraisal						
Please make an appraisal o	of the applicant	's abilities/quali	ities in compari	son with other s	tudents in the so	ame field w
you have known or taught.				1		
	Outstanding	Excellent (Top10%)	Good (Top Third)	Fair (Middle Third)	Poor	Unable t
Intellectual Ability	(Top 5%)	(10p10%)	(Top Third)	(iviluale i filia)	(Bottom Third)	judge
-						
Analytical Ability						
Ability in Oral Expression*						
Ability in Written Expression*						
Ability to Work with Others						
Persistence/ Drive						
Originality/ Creativity	Ш	Ш	Ш	cants will be requi	Ш	
verall Recommendation Strongly recommended Recommended with Not recommended	th reservation	S				
feree Details	•					
Name:						
Position/Title:					_	
Institution:					_	
Institution Address:					_	
Telephone Number:					_	
Facsimile Number:					_	
E-Mail Address:					_	
Date		_		Signature		

International Energy Science Course

Application for Master's/doctoral Program

Graduate School of Energy Science, Kyoto University

DISCLAIMER

Application for admission to the IESC requires that the applicant abides by the following:
The applicant shall complete the admissions forms, and obtain the required documentation themselves.
Kyoto University does not support the use of third party agents for the completion of any admissions procedures.
Furthermore, in accordance with international academic standards, plagiarism or falsification of any of the required documents is unacceptable.
It is accepted that the applicant may seek the advice and wisdom of others, but that they must complete the application and all associated correspondence on their own.
Applicant's declaration:
I hereby declare that the
application enclosed is a true record and is the product of my own work, not that of others.

Signature:

Date: _____