

# Students of KINGS

## 2012-2021

### Europe

Europe	G	E
Poland	4	3
Czech Republic	-	1
Romania	4	-
Turkey	3	2
Belarus	1	-

### Middle East

Middle East	G	E
Saudi Arabia	0	2
UAE	5	2
Jordan	3	-
Yemen	5	-

### Asia

Asia	G	E
Korea	205	52
Vietnam	24	2
Malaysia	16	-
Indonesia	9	4
Uzbekistan	-	3
Kazakhstan	1	-
Bangladesh	6	-
Thailand	2	-
Philippines	1	-
Mongolia	7	-
Cambodia	1	-
Tajikistan	1	-

### America

America	G	E
Brazil	4	-
Mexico	1	-

### Africa

Africa	G	E
Egypt	19	3
Kenya	39	8
South Africa	12	-
Nigeria	19	4
Ghana	6	3
Tanzania	5	3
Uganda	6	2
Tunisia	1	-
Senegal	1	-
Rwanda	-	1

### Total

Total	Graduate	Enrolled	Sum
Korean	205	52	257
International	206	43	249
Total	411	95	506

# 2022

# KINGS

## Admission Guidelines

# Students of KINGS

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# 2022 KINGS

## Admission Guidelines



# ADMISSION GUIDELINES

## Admission Policy

- KINGS is accredited by the Ministry of Education of the Korean Government.
- The School confers two types of Master's Degree: Master of Engineering (ME) and Master of Science (MS).
- KINGS desires future-oriented and experienced applicants who are working in energy related fields.
- Motivated and open-minded individuals are invited to apply.
- An ability to study in cross cultural environments is essential at KINGS.

## Guide for Admission

Eligibility criteria such as academic background, work experience, letter of recommendation, and language requirement is described in the table below.

Term	Guideline
Academic Background	Bachelor's Degree or Higher
Work Experience	+1 Year Preferred
Letter of Recommendation	Company, Government, or Academic Supervisor
Language Requirement	Certified English Test Score or Equivalent Language Proficiency

## Timelines



## Mailing Address:

Room #510 main building  
658-91 Haemaji-ro, Seosaeng-myeon, Ulju-gun, Ulsan 45014 Republic of Korea

# ADMISSION GUIDELINES

## How to Apply

- To access the on-line application, find the "Apply Now" banner on the KINGS website ([www.kings.ac.kr](http://www.kings.ac.kr)), under the "Admission" menu.
- Create your own account and fill in all the required information for each page of them.
- The on-line application page will be available only during the official application period. Please refer to the notice on KINGS website for the 2022 application period.

## Required Documents<sup>1</sup>

- 1 Application for admission<sup>2</sup> (Form 1)
- 2 Statement of purpose (Form 2)
- 3 Study & career plan (Form 3)
- 4 Certificate of employment (Form 4)
- 5 Letter of recommendation (Form 5)
- 6 Original certificates or diploma of all undergraduate and graduate level degrees
- 7 Original college/university transcripts
- 8 Proof of proficiency in English

<sup>1</sup> All forms (1~5) are provided at the application system ([www.kings.ac.kr](http://www.kings.ac.kr))

<sup>2</sup> Identification photo taken within 3 months (black and white photo will not be accepted)

## Application Fee

- KINGS does not charge an application fee for international students.



## Proof of English Proficiency

- Applicant whose native language is not English must demonstrate his/her English language proficiency by submitting any certificates from authorized institutions
- An applicant who has graduated from a university in country whose official language is English is exempt from proving English proficiency if he/she submits a certificate stating that he/she has completed all of the courses in English.

## Important Notice

- You are required to submit original documents when you are admitted; however, notarized copies of original certificates are also acceptable.
- All application documents must be typed (not hand-written) in English.
- Non-English based documents must be accompanied with notarized English translations.
- **All** submitted documents will **NOT** be returned.
- If an applicant has gained admission in an illegal manner (through forgery, alteration of documents, or document translation errors) then the **admission will be nullified**. Furthermore, if a criminal case is suspected, the student will be reported to the authorities of Republic of Korea and of the applicant's home country in compliance with the law.





# EDUCATION PROGRAM

## Department of Nuclear Power Plant Engineering

### Introduction

The Department of NPP Engineering offers a comprehensive graduate-level program covering all aspects of a nuclear power plant project starting from the design and certification phase, through the operation and management, all the way to decommissioning. Our program provides students with theoretical as well as practical training that enables them to lead NPP projects in their countries.

Most of our students are employed professionals who have worked for over three years in nuclear power-related corporations or companies, in either the Republic of Korea or other countries. After completion of the two-year (four-semester) program at KINGS, students graduate with a Master's Degree in Nuclear Power Plant Engineering. Students may pursue a Master of Engineering (ME) or a Master of Science (MS).

KINGS also offers Systems Engineering courses to help students to manage large, complex projects in the field. Moreover, not only are projects becoming more complex, but are also developing a digital technologies aspect in their workflow. To help students prepare for such advancements, KINGS offers courses in Big Data, Python programming, and Artificial Intelligence/Machine Learning.

### Curriculum

Fundamental Knowledge	Specialization Program (Project-based Learning)
<ul style="list-style-type: none"> <li>• Introduction to Nuclear Engineering</li> <li>• Introduction to Systems Engineering</li> <li>• Introduction to Statistics, Data Analysis, and Big Data</li> <li>• Introduction to Machine Learning</li> <li>• APR Technology</li> <li>• Elective courses in two study areas</li> <li>• Technical Writing</li> <li>• Cross Cultural Program</li> </ul>	<p>Project-based learning in any of the following study areas:</p> <ul style="list-style-type: none"> <li>• Reactor Core Design</li> <li>• Thermal Hydraulics and Nuclear Safety</li> <li>• NPP Risk Assessments</li> <li>• 3D Printing for NPP Component Design and Production</li> <li>• NPP Electrical Systems</li> <li>• International Project Management</li> <li>• Decommissioning and Radioactive Waste Management</li> <li>• Radiation Protection</li> <li>• NPP Earthquake Engineering</li> </ul>
First Year	Second Year

### Study Areas

- Nuclear Infrastructure Planning and Design
- Balance of Plant Design
- Safety Analysis
- Operation and Management
- Environment Assessment

### Graduation Requirements

#### Degree Type

- Master of Engineering (ME) in Nuclear Power Plant Engineering
- Master of Science (MS) in Nuclear Power Plant Engineering

#### Common Requirements

- Minimum of 36 credits, Minimum GPA of B- (2.7/4.3)
- Study Period: 2 years (March 2022 - February 2024) at KINGS
- Thesis (MS) or Project Report (ME) approved by the Examining Committee

Note: Departmental requirement(s) per degree type may apply

## Department of Energy Policy & Engineering

### Introduction

Energy policy is a complex system, where economics, environmental protection, and sustainability issues are interconnected. The Department of Energy Policy and Engineering offers a curriculum that builds capability to understand and solve problems which can arise from such a complex system in an integrated way. The program is designed to foster global-level energy policy decision makers and executives who understand both theory and practice through lectures, practical training, and sharing experience with colleague students from various fields, including electric power companies and overseas public institutions.

The department operates a two-year program: the energy policy and engineering courses in the first year at KINGS, and the thesis/individual project report research program at the student's affiliated institution in the second year. Students can earn a Master of Engineering (ME) or Master of Science (MS) from KINGS

Not only are projects becoming more complex, but are also developing a digital technologies aspect in their workflow. To help students prepare for such advancements, KINGS offers courses in Big Data, Python programming and Artificial Intelligence/Machine Learning

### Curriculum

Fundamental Knowledge	Master's Research
<ul style="list-style-type: none"> <li>• Electric Resource Planning and Optimization</li> <li>• Financial Theory for Engineers</li> <li>• Introduction to Statistics, Data Analysis, and Big Data</li> <li>• Introduction to Machine Learning</li> <li>• Micro Grid Platform and ESS</li> <li>• Basic Economics and Quantitative Methods</li> <li>• Energy Policy and Utility management I</li> <li>• Technical Writing</li> <li>• Cross Cultural Program</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Master of Engineering</b> Researching a master's report in one or multiple study areas stated below at student's affiliated organization under remote advice and supervision of a KINGS professor</li> <li>• <b>Master of Science</b> Researching a master's thesis in one or multiple study areas stated below at student's affiliated organization under remote advice and supervision of a KINGS professor</li> </ul>
Advanced Knowledge	Second Year
<ul style="list-style-type: none"> <li>• Analysis of Electric Market and Industry</li> <li>• Project Valuation and Risk Analysis</li> <li>• Machine Learning Application to NPP and Business</li> <li>• Power System Development Project</li> <li>• Project Development and Finance</li> <li>• Energy Policy and Utility management II</li> </ul>	
First Year	

### Study Areas

- Sustainable Energy System and Technologies <sup>1)</sup> for 3D's<sup>2)</sup>
- Electricity Market and Economics
- Project Valuation and Finance
- Hybrid Energy System Optimization with AI
- Climate Change and Utility Management

<sup>1)</sup> Photovoltaic, Wind-Turbine, Hydrogen, SMR, Geothermal, Small-hydro, ESS etc.

<sup>2)</sup> Decarbonization, Digitization and Decentralization

### Graduation Requirements

#### Degree Type

- Master of Engineering (ME) in Energy Policy and Engineering
- Master of Science (MS) in Energy Policy and Engineering

#### Common Requirements

- Minimum of 36 credits, Minimum GPA of B- (2.7/4.3)
- Study Period: First year at KINGS / Second year at student's affiliated organization
- Thesis (MS) or Project Report (ME) approved by the Examining Committee

Note: Departmental requirement(s) per degree type may apply.





# FINANCIAL DETAILS

## Tuition & Fees<sup>1</sup>

### Tuition

Tuition is 48.4 million KRW (≈39,643 USD)<sup>2</sup> per academic year. Tuition covers lectures, lecture materials, access to the library, and other various facilities for academic activities.

### Matriculation Fee

Matriculation fee is 1 million KRW (≈ 819 USD)<sup>2</sup>

### Living Costs

Total rate of room and board is 12.8 million KRW (≈ 10,484 USD)<sup>2</sup> per year including three meals a day.

## Financial Aid

### Scholarships

The **KINGS Global Scholarship** covers a maximum of two years of full-time study. All new eligible international students are awarded the global scholarship. To receive the KINGS global scholarship, recipients must have satisfied the requirements (minimum GPA of B-, 2.7/4.3) as outlined in KINGS regulations. The scholarship covers the above mentioned tuition, matriculation fee, and room & board fee.

**International Atomic Energy Agency (IAEA)** will also support the participation of fellows to KINGS Master's Degree program in 2022 based on IAEA's policy. For further information, please contact the IAEA National Liaison Office in your country.

### Assistantships

**Administrative Assistantships (AA)** are available for eligible international students. The monthly assistantship stipend rate depends on the actual hours of service provided by the student each month. Students can work up to a maximum of 30 hours per month.

### Medical & Insurance

- KINGS provides basic health check-ups and care at the health office. For international students who need medical treatment at a hospital, the school provides support regarding hospital information.
- The Korean government requires a mandatory health insurance. Recently according to the Ministry of Health and Welfare in Republic of Korea, a foreigner who has stayed for more than six months must subscribe to the Public National Health Insurance since 1 March 2021. The amount of health insurance fee is approximately \$50 per month.

<sup>1</sup> All fees and costs are based on the 2021 academic year and are subject to change for the 2022 academic year.

<sup>2</sup> Values in parentheses are fees in US Dollars based on the exchange rate of 1,220.9 KRW/USD.



# CAMPUS LIFE

## Facilities

- KINGS dormitory has 200 single occupancy rooms, a cafeteria, and an Islamic prayer room.
- Each dormitory room is equipped with a bathroom, a study desk, a single bed, and a refrigerator.
- KINGS cafeteria provides regular Korean and Western meals.
- A fully furnished common kitchen is also available for student use.
- Residential facilities including tennis and basketball courts, a futsal field, a ping pong room, and a gym are available.
- KINGS has high-speed internet connection which students can access on campus, free of cost.
- A Kookmin Bank (KB) ATM is also available on campus.

## Monthly Events for KINGS Students

<b>2</b> February • Orientation • City Tour	<b>3</b> March • Cherry Blossom Festival	<b>4</b> April • Movie Night • Marathon Race
<b>5</b> May • Watching Baseball Game Event • Spring Hiking	<b>6</b> June • 1 <sup>st</sup> Culture Trip	<b>7</b> July • Summer Session
<b>8</b> August • Summer Vacation	<b>9</b> September • Fall Festival • Chuseok Program	<b>10</b> October • Watching Basketball Game Event
<b>11</b> November • Movie Night	<b>12</b> December • 2 <sup>nd</sup> Culture Trip	<b>1</b> January • Winter Vacation

\* The schedule is subject to change.

For more information, visit the KINGS website ([www.kings.ac.kr](http://www.kings.ac.kr)) or contact External Relations Team at [admission@kings.ac.kr](mailto:admission@kings.ac.kr).