

POSTECH

**Graduate Admissions Guide for
International Students**

Fall 2022 & Spring 2023

Admissions Timeline

	Application Period	Result Announcement	Semester Begins
First round	February 8, 2022 ~ April 14, 2022 (24:00)	June 9, 2022	Fall 2022 or Spring 2023
Second round	May 10, 2022 ~ September 27, 2022 (24:00)	November 22, 2022	Spring 2023

*The timeline is based on Korean Standard Time.

Programs and Degrees Offered

Program	MS-Ph.D. Integrated*	MS	Ph.D.	Course Description
Mathematics	○	○	○	<ul style="list-style-type: none"> - Commutative Algebra - Numerical Analysis, Partial Differential Equations - Applied & Computational Mathematics - Mathematical Foundation of Quantum Field Theory - Algebraic Geometry - Computational Algebraic Geometry, Mathematical signal Processing - Harmonic Analysis, Partial Differential Equations - Geometry Topology Mathematics, Knot Theory & Related Algebra & Homotopy Theory - Number Theory, Computational Mathematics (Coding/Cryptography) - Algebraic Geometry - Geometric Group Theory - Advanced Numerical Analysis, Applied Mathematics, Financial Mathematics - Several Complex Variables, Complex Differential Geometry - Number Theory, Coding Theory & Combinatorics - Harmonic Analysis - Number Theory - Partial Differential Equations, Calculus of Variations - Symplectic Geometry & Mathematical Physics - Mathematical Statistics, Stochastic Calculus, Financial Mathematics, Actuarial Mathematics - Functional Analysis - Analysis, Nonlinear Partial Differential Equations
Physics	○	X	○	<ul style="list-style-type: none"> - Condensed Matter Physics - Biophysics - Astrophysics and Particle Physics - Computational Physics and Statistical Physics - Plasma Physics - Accelerator Physics - Quantum Optics
Chemistry	○	○	○	<ul style="list-style-type: none"> - Physical Chemistry - Organic Chemistry - Inorganic Chemistry - Analytical Chemistry - Polymer Chemistry - Biochemistry - Biomedical Chemistry

Life Sciences	○	○	○	<ul style="list-style-type: none"> - Structural Biology - Immunology - Molecular Medicine - Neuroscience - Plant Sciences
Materials Science and Engineering	○	○	○	<ul style="list-style-type: none"> - Electronic / Photonic Materials - Advanced Structural Materials - Energy / Environmental Materials - Bio / Organic Materials - Computational Materials Science and Engineering / Characterization
Mechanical Engineering	○	○	○	<ul style="list-style-type: none"> - Nano/Microscale Engineering - Biomedical Engineering - Future Energy/Mobility
Industrial & Management Engineering	○	○	○	<ul style="list-style-type: none"> - Queueing Theory - Patent Mining - Quality Engineering - Logistics - Business Analytics - Ergonomics - Operations Research - Financial Engineering & Fintech - Optimization - Applied Statistics - Risk Management - Science & Technology Policy - Smart Factory - Applications in Energy and Sustainability - Management Information System - Experience Engineering
Electrical Engineering	○	○	○	<ul style="list-style-type: none"> - Semiconductor & Quantum Electronics - Superhigh Frequency - Electricity & Electronics - Information and Communications/Signal Management - Computer Engineering - VLSI
Computer Science and Engineering	○	○	○	<ul style="list-style-type: none"> - Theory of Computing - Computing Systems - Computer Security - Network Systems - Software Engineering & Programming Languages - Data Science - Machine Learning - Human-Computer Interaction - Visual Computing
Chemical Engineering	○	○	○	<ul style="list-style-type: none"> - Data Processing & System - Information and Electronics & Materials - Biotechnology - Energy & Environment
Convergence IT Engineering	○	○	○	<ul style="list-style-type: none"> - Intelligent Systems - IT-based Future Healthcare - Human Technology Design - Smart Computing
Environmental Science and Engineering	○	○	○	<ul style="list-style-type: none"> - Hydroclimaology, Global hydrologic modeling, Hydrologic forecast, Sociohydrology - Global Climate Change, Climate modeling - Pollutant source tracing, Atmospheric and

				biogeochemical pathways - Climate change detection and attribution, Climate change projection - Fossil-fuel carbon sequestration - PM2.5, Satellite Remote Sensing, Exposure Assessment - Electrochemical Wastewater Treatment and Energy Conversion - Nanoporous materials chemistry, Sustainable greencatalysis - Biotreatment and biorecycle of waste(water) - Environmental Health Materials, Environmental Materials - Radioactive waste management - Carbon Nanomaterials Syntheses - Environmental Nanochemistry, Quantum Dot Solar Cells - Generation of molecular recognition reagents, synthetic enzymes - Environmental Fluid Mechanics, Wind Engineering, Flow Control - H2 production, chemical hydrogen storage - Systems and Synthetic Bioengineering - Biodegradable Polymers, Polymer Rheology - Molecular Biotechnology, Metabolic Engineering - Rational Design of Energy Materials and Catalysts: from computational chemistry to experimental validation
Graduate School of Artificial Intelligence	○	○	○	- Media AI - Data AI - AI Theory
Advanced Materials Science	○	○	○	- Organic Chemistry, Modified Nucleic Acid Systems - Nano Materials Spectroscopy, Physical Chemistry - Fundamental Study on Emergent Materials - Inorganic and Organometallic Chemistry, Radiochemistry - Chemical Biology and Drug Discovery - Computational Material Science, Design and Optimization of Novel Materials - Synthesis and Applications of Self-assembled Nanomaterials - Polymer Synthesis and Fabrication - Synthesis and Characterization of Polymer and Inorganic Materials - Devices based on Self-assembled Materials - Electronic Devices and Light-emitting Devices - Nanomaterials and Nanodevice Physics - Computational Design of Nanomaterials and Nanodevices - Nano Chemistry, Inorganic Chemistry - Chemical Biology, Fluorescent Sensor & Bioimaging - Polymer Chemistry, Optoelectronics, and Energy Devices - Molecular Electronics and Devices
Advanced Nuclear Engineering	○	○	○	- Nuclear Safety & Energy Conversion - Nuclear Physics and Plasma - Radioactive Waste Management
Interdisciplinary Biosciences and Bioengineering	○	○	○	- Network Dynamics - Bio-Complexity and Theoretical Biology - Bioinformatics - Biomedical Engineering - Nanoscale Bioimaging - Bio-Dynamics

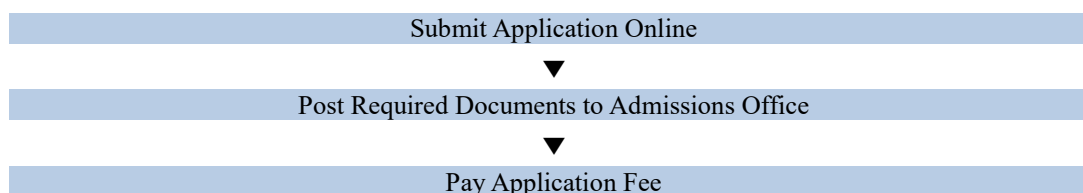
				- Bio-material - Bio-Engineering
Ferrous & Energy Materials Technology	○	○	○	※ Visit the website Graduate Institute of Ferrous & Energy Materials Technology (http://gift.postech.ac.kr) for detailed information.

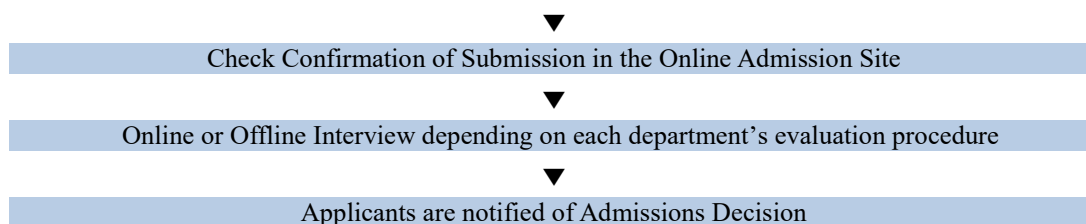
* **MS-Ph.D. Integrated Program:** Under this program, students can work towards a Ph.D. degree after passing the Ph.D. qualifying exam without going through an MS degree.

Eligibility

Criteria	Eligibility										
MS / MS-Ph.D. Integrated Applicant	- Must have completed a bachelor's degree; or, - Prospective graduate of undergraduate study. (Bachelor's degree must be awarded before enrollment)										
Ph.D. Applicant	- Must have completed a master's degree'; or, - Prospective graduate of graduate study for MS. (Master's degree must be awarded before enrollment)										
Nationality	- Applicants must meet the one of the following requirements. 1) Applicants and their parents must hold foreign citizenship. (Korean citizens who hold another citizenship are not eligible for International Admissions.); or, 2) Applicants with Korean nationality residing abroad must have received their entire education course from 1 st grade of elementary school to undergraduate graduation outside of Korea. In this case, the applicants must submit documents to prove their educational background.										
English Proficiency	- Every applicant whose native language is not English must demonstrate their English language proficiency. 1) Applicants must meet one of the minimum requirements for the following <u>English Proficiency Tests</u> ; or, <table><tr><th>TOEFL (PBT)</th><th>TOEFL (iBT)</th><th>TOEIC</th><th>IELTS</th><th>TEPS</th></tr><tr><td>550</td><td>79</td><td>750</td><td>6.0</td><td>600 New327</td></tr></table> 2) <u>Proof of Instruction Language</u> may be substituted for the above English proficiency test. This means applicants must submit a document with the institution's seal that proves they completed all of their courses in English. - Applicants who have graduated from a university in Australia, Canada, Ireland, New Zealand, Great Britain, or the United States are exempted from the English Proficiency Test.	TOEFL (PBT)	TOEFL (iBT)	TOEIC	IELTS	TEPS	550	79	750	6.0	600 New327
TOEFL (PBT)	TOEFL (iBT)	TOEIC	IELTS	TEPS							
550	79	750	6.0	600 New327							

Procedures at a Glance





Admission Procedure

Applicants must complete their online application, then submit the required documents by post.

Step 1. Submit Application and Required Documents Online

- 1) **Application form (online application)**
- 2) **Personal Statement and Research Plan (provided form)**
 - Download format from the website, <https://adm-g.postech.ac.kr/ENG/admission/gist/?show=A>
- 3) **Curriculum Vitae (free-form personal resume)**
- 4) **Applicant's and parents' proof of citizenship**
 - Passport copies; or,
 - A certificate of family registration issued by the government of the applicant's country.
- 5) **Two Recommendation Letters**
 - From two recommenders by academic faculty or supervisors.
 - Must be e-mailed to grad-admission@postech.ac.kr **directly** by each recommender.
- 6) **List of Honors and Awards (optional)**
 - Applicants who have received any honors, awards, or fellowships during their undergraduate or graduate studies may list them in the order of importance.

※ Note: Applicants must submit the online application before the deadline.

Step2. Post Required Documents to Admissions Office

- 1) **Official Transcript(s)**
 - From all undergraduate and graduate institutions the applicant attended.
 - Must be issued by the institution attended, bearing the institution's official seal and signed by the head of the institution.
- 2) **Degree Certificate(s)**
 - From all undergraduate and graduate institutions which the applicant received degrees.
 - Applicants who are prospective graduates can submit an expected graduation certificate.
 - The degree certificate for your final degree has to be original copy. The students from below 21 countries have to submit one of A), B) or C) as the degree proof:

· 21 countries: Ghana, Nigeria, Nepal, Myanmar, Bangladesh, Vietnam, Mongolia, Sri Lanka, Uzbekistan, Ukraine, Iran, Egypt, India, Indonesia, China, Kazakhstan, Kyrgyzstan, Thailand, Pakistan, Peru, Philippines

A) An apostilled copy of diploma

B) A copy of diploma verified by a Korean consulate in the country of the university that issued diploma, or a copy of diploma verified by your country's diplomatic mission in Korea

C) For individuals who received a degree in China, in addition to the degree certificate, an authorized document such as a degree report issued by China Academic Degrees & Graduate Education Development Center (CDGDC) is required.

※ CDGDC Website: <http://www.cdgdc.edu.cn/>

3) English Proficiency

■ Score Report of English Proficiency Test; or

- Must be valid at the time of applying.

- The official TOEFL/IELTS Score Report issued by ETS/British Council can be sent to POSTECH Admissions office directly by requesting it at the ETS/ British Council website. Applicants must enter POSTECH's institution code (**0329**) in order for ETS to send the official score report to our office. Individual department code numbers are not necessary.

- TOEFL ITP organized only by POSTECH is accepted.

■ Proof of Instruction Language

- **Official letter bearing the institution's seal** that verifies the instruction language (English) of the applicant's institution where one achieved a degree.

4) Degree Thesis (optional)

※ Note: The "Required Documents by Post" must arrive at the Office of Admissions by the admissions deadline. Any documents submitted after the deadline will not be reviewed.

Step 3. Pay Application Fee: 80 USD or 80,000 KRW

- The application fee is not refundable.

- Applicants must make the payment for the application fee in order to complete their online application. After the payment is made, the online application is no longer revisable.

- **Payment can be made through either of the following ways:**

1) Credit Card;

- An application number will be given to applicants immediately after making the payments.

- Practicable within Internet Explorer (Firefox, Chrome may not be supportive of this act).

2) Transfer

- Applicants who are not able to make the payments online via credit card can transfer the amount to

the university bank account.

- Applicants who transferred the application fee are required to report the act of transfer to the Office of Graduate Admissions and Student Affairs via e-mail (grad-admission@postech.ac.kr). The e-mail should include **the name of the depositor, name of the applicant, and transfer receipt**. An application number will be given to applicants after confirmation.

- Transfer Information:

- Bank name: Woori Bank
- Account no: 1005-501-138745
- Application fee: 80 USD or 80,000 KRW
- Account holder: 포항공과대학교 Pohang University of Science and Technology (POSTECH)
- Swift Code: HVBKKRSEXXX
- Address of the account holder: 77 Cheonam-ro, Nam-gu, Pohang, Gyeongbuk, Korea, 37673
(The bank branch is located within our university)

※ Payment is automatically waived for applicants from POSTECH's partner universities in the payment process.

- To check whether your university is one of POSTECH's partner universities, please follow the link: <http://international2.postech.ac.kr/introduction/partner-institutions/>

Step 4. Online or offline interview

- Applicants may go through online or offline Interview depending on each department's evaluation procedure. Those who pass the document screening process will be noted of the interview schedule by each department.

Document Mailing Address

Admissions office,

Pohang University of Science and Technology

77 Cheongam-Ro, Nam-gu, Pohang, Gyeongbuk, Republic of Korea, 37673

Note

- POSTECH reserves the right to revoke an offer of admission or terminate a student's registration, should it be discovered later that:
 - a false statement has been made; or,
 - a false document has been provided; or,
 - documentation has been altered; or,

- if there has been an omission of significant information.
- All documents must be the original versions issued by the institution, bearing the institution's official seal and signed by the head of the institution. All official academic records must be issued **in the original language, accompanied by English.**
- All newly admitted students should submit **Notarization or Apostille certificates for diploma(s) & transcript(s)** during the orientation period.

Costs and Financial Aid

1. Estimated Costs

(1 USD is approximately 1,180 KRW as of December)

Tuition fee per year		9,564,000 KRW	8,105 USD
Housing per year	Dormitory for unmarried students	1,175,000 KRW	996 USD
	Apartment for unmarried students	2,400,000 KRW	2,033 USD
	Apartment for married students	3,000,000 KRW	2,542 USD
Graduate Student Association fee (optional) per year		30,000 KRW	25 USD
Meal costs		3,240,000 KRW	2,745 USD
Matriculation fee (only once when enrolling)		898,000 KRW	761 USD
Housing deposit (only once)	Apartment for married students only	200,000 KRW	169 USD

* To reduce financial burden on students in case of illness or injury. Students enrolled in the plan can receive 80% of medical expenses in reimbursement up to 1,000,000KRW per semester.

** Payment should be made through KRW. The USD exchange rate is stated only for reference.

2. Health Insurance

All of POSTECH's prospective students **MUST** join or purchase one of the following three insurance plans:

- 1) Health insurance plan of their home country that covers most illnesses or injuries in a foreign land (i.e. Korea). In this case, applicants must submit a document of verification to International Student and Scholar Services (ISSS) prior to their arrival at POSTECH.
- 2) National Health Insurance Service (NHIS). From March 2021, all international students who stay in Korea for six months or longer must sign up for a compulsory social insurance, NHIS(National Health Insurance Service), by Korean law. NHIS provides a wide range of coverage for various injuries and illnesses. Furthermore, instead of getting reimbursed afterwards, patients can pay the discounted amount from the start at the medical institutions.
- 3) Korean Private Health Insurance. Students are required to pay approximately 200,000 ~ 250,000 KRW per year. Please note that the Korean Private Health Insurance covers fewer illnesses and injuries than NHIS. Also, unlike NHIS, patients are required to pay the entire amount at the medical institutions, and then get a certain amount of reimbursement by submitting required evidential documents.

3. Financial Aid

■ External Financial Aid

▶ Global Korea Scholarship Program (GKS)

The Global Korea Scholarship Program is designed to support international students pursuing higher education in

Korea, with the aim of promoting international exchange in education, as well as mutual friendship amongst the participating countries. POSTECH is one of the designated universities in Korea, and the application period is from February to March every year.

Applicants can choose to apply for GKS through one of the following two tracks:

- 1) University Track: Applying to POSTECH directly and then being recommended to the Korean government
- 2) Embassy Track: Being recommended by the Korean Embassy at the applicant's country to designated universities

Please keep an eye on the notice board of our website (<https://adm-g.postech.ac.kr/ENG/category/board/notice/>) or the government website (<http://studyinkorea.go.kr/en/main.do>) for further updates.

■ Internal Financial Aid

▶ POSTECH Teaching or Research Assistantship (TA/RA)

Available to graduate students who are selected as teaching or research assistants by their advisors. It is mostly mandatory for students but may be different depending on each department's regulation. Living allowance, tuition fee and dormitory fee would be covered by this assistantship.

▶ POSTECH Settlement Allowance for New International Students

Eligible to incoming international graduate students from the outside of Korea who have not lived in Korea for 6 months before admission. It is specially separated from the other internal scholarships, and covers settlement allowance as well as air fare (subsidy). The exit and entry record will be checked upon admission to confirm the eligibility.

※ The amount and eligibility criteria are subject to change without prior notice.

Appendix 1: Frequently Asked Questions

◎ Application

Q1: I am in my last semester of bachelor's/master's degree. Am I eligible to apply for the master's/doctoral degree for the following semester?

Applicants who are in their last semester of bachelor's or master's degree are eligible of applying for the enrollment of the following semester under the condition that their bachelor's/master's degree will be awarded before they enroll at POSTECH.

Q2: Do I have to send the documents that I uploaded during the online application process by post?

The documents applicants uploaded online will be printed out by the Graduate Admissions and Student Affairs Office. Therefore, applicants only need to send the aforementioned documents listed in "Submit Required Documents by Post."

Q3: How will I know whether my documents have arrived?

The status of delivery can be checked in our online admission system.

Q4: How do I pay the application fee online?

Applicants must pay the application fee via credit card. However, if applicants have problems with making their payment online via credit card, follow the following instructions:

- 1) Install payment system program (Active X).
- 2) POSTECH's payment system (LG U+) adopts 3D-Secure authentication via VISA or MASTER. If you have a card that does not obtain 3D-Secure authentication, payment is not possible. Therefore, applicants should apply the 3D-Secure authentication to their card firm in order to be able to make the payments.

Q5: What if I want to revise my online application?

Applicants are able to save and revise their online application until the application deadline, even if they finalized the application and paid the application fee. After the deadline is over, it is no longer possible for applicants to edit their application.

Q6: I am currently a prospective graduate. When do I have to submit my degree certificate?

Applicants who are not able to submit their degree certificate/certificate of graduation at the stage of their online application because they are prospective graduates are required to submit the provisional letter/certificate of graduation including the institute's official seal to Admissions Office first, and afterwards submit the original copy of the degree certificate before the date of admission.

◎ Language Proficiency**Q1: What if I do not meet the required score for English proficiency?**

Since POSTECH's language of instruction is mainly English, prospective students must reach an average level of English proficiency. Therefore, all applicants are required to prove their English proficiency through an official test or either a document that proves the instruction language of applicants' institution. Refer to the contents of "Eligibility" previously.

Q2: Is the Institutional Testing Program (ITP) hosted by institutions other than POSTECH acceptable?

ITP held by other institutions is not acceptable when applying to POSTECH's graduate program. Only that hosted by POSTECH is valid.

Q3: Can other English Proficiency Tests (e.g. GRE) substitute the English Proficiency Tests listed previously?

No other English Proficiency Tests can substitute the English Proficiency Tests listed previously. You have to acquire the minimum score of at least one of the previously indicated tests. However, if you do possess other English Proficiency Score or certificates, you can submit them along with the compulsory requirements.

Q4: How can I get a document for "Proof of Instruction Language"?

Applicants whose institution performs all of the lectures in English are qualified to substitute the English

Proficiency Test with a document that verifies the institution's instruction language. If the applicant's institution does not have such an official document, he/she can submit other documents (e.g. transcript, enrollment certificate, etc.) with the institution's original seal and the following phrase: "It is hereby verified that the instruction language of (institution's name) is English."

Q5: Do I have to be proficient in the Korean language?

Korean Language Proficiency is not an essential requirement for application. However, applicants who have minimum capacity in Korean can be preferred.

Appendix 2: Contact Information

◎ POSTECH Official Website: <http://www.postech.ac.kr/>

◎ Administration Office

Office	E-mail	Homepage
Graduate Admission & Student Affairs	grad-admission@postech.ac.kr	https://adm-g.postech.ac.kr/ENG/
Housing	h-sm@postech.ac.kr	http://hsm.postech.ac.kr
International Relations (International Student and Scholar Services)	iao@postech.ac.kr	http://international.postech.ac.kr/

◎ Department/School/Division/Institute Office

	Office	Homepage
Department	Mathematics	http://math.postech.ac.kr
	Physics	http://ph.postech.ac.kr
	Chemistry	http://chem.postech.ac.kr
	Life Sciences	http://life.postech.ac.kr
	Materials Science and Engineering	http://mse.postech.ac.kr
	Mechanical Engineering	http://me.postech.ac.kr
	Industrial & Management Engineering	http://ime.postech.ac.kr
	Electrical Engineering	http://ee.postech.ac.kr
	Computer Science and Engineering	http://cse.postech.ac.kr
	Chemical Engineering	http://ce.postech.ac.kr
	Convergence IT Engineering	http://cite.postech.ac.kr
School	Artificial Intelligence	http://ai.postech.ac.kr
	Interdisciplinary Biosciences and Bioengineering	http://ibio.postech.ac.kr/
Division	Environmental Science and Engineering	http://dese.postech.ac.kr
	Advanced Materials Science	http://ams.postech.ac.kr
	Advanced Nuclear Engineering	http://dane.postech.ac.kr
Institute	Ferrous & Energy Materials Technology	http://gift.postech.ac.kr

Appendix 3: Campus Map

