

# The RCARO SCHOLARSHIP PROGRAMME

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The RCARO Scholarship Programme seeks to support students from the RCA Government Parties to study and pursue a career in the nuclear related field. The Programme is to educate and train students from the RCA Government Parties with the aim to preserve and enhance nuclear technology and provides scholarships to selected students studying for a Master's or a Doctoral Degree in nuclear related subjects facilitated by the RCARO in cooperation with institutes/universities in Korea.



## | RCA Regional Office (RCARO)

Since its foundation in 2002 in Korea, the RCARO has been committed to support the RCA Government Parties, implementing various kinds of cooperative activities to contribute to developing the nuclear science and technology and nurturing regional professionals and next generations of the RCA.

Main activities include promoting the peaceful uses of nuclear technology to assist in addressing regional and national needs; increasing the awareness of the RCA; enlarging the profile of the RCA through partnerships with regional/international organizations; being a repository of RCA information; and among others, functioning as a think-tank by providing policy and strategy support to the RCA.

## | RCA

The Regional Cooperative Agreement for Research, Development and Training Related to Nuclear Science and Technology for Asia and the Pacific (RCA) is an intergovernmental agreement established under the auspices of the IAEA, comprising 22 Government Parties\* in the Asia-Pacific region. Since its establishment in 1972, the RCA has served as an effective framework that reinforces collaboration among the Government Parties to contribute to the dissemination of nuclear science and technology and bring socio-economic development to the region.

\* Australia, Bangladesh, China, Cambodia, Fiji, India, Indonesia, Japan, Korea, Laos, Malaysia, Mongolia, Myanmar, Nepal, New Zealand, Pakistan, Palau, Philippines, Singapore, Sri Lanka, Thailand, Viet Nam





## Fostering the next generation of leaders in the nuclear field in the Asia-Pacific region

The world needs nuclear technology to help solve many of its most pressing problems from climate change to energy and food security. Nuclear technology is a long-term commitment and requires an integrated approach for its sustainable development as it involves a few consecutive generations of professionals.

Capacity building is key to achieving sustainable development and important in ensuring the continued availability of competent personnel for the safe, secure and sustainable use of nuclear technology. A highly skilled workforce is vital to the future of any industry, and the nuclear sector is no exception. The development of a sustainable manpower has been a key area of focus in the nuclear field in the Asia-Pacific region. Among countries that lack human resources, the challenge lies in establishing academic programmes and building professional networks.

In recognition of this, since 2003, RCARO has been implementing Scholarship Programme to support students from the RCA Government Parties in the nuclear field. The Programme provides scholarships for Master's or Doctoral degree students and opportunity to participate in national R&D projects to develop competence in research and network with subject matter experts and hands on experience at various Korean institutes/universities (KAIST, KINGS, UST). Site-visits to the nuclear-related facilities in Korea are facilitated as well.

### Benefits to Students

 <p>Air Ticket from home country to Korea</p>	 <p>Tuition Fees</p>	 <p>Stipend (cost of living)</p>
 <p>Dormitory</p>	 <p>Professional Networking</p>	 <p>Site-visits to nuclear-related facilities</p>

# RCA/KAIST Master's Degree Programme

Korea Advanced Institute of Science and Technology (KAIST) is the first and top science and technology university in Korea, established in 1971 by the Korean Government to educate scientists and engineers committed to industrialization and economic growth in Korea. Since then, KAIST and its graduates have been the gateway to advanced science and technology, innovation and entrepreneurship.

It's comprised of 5 colleges with 7 schools, 13 graduate schools and 27 departments.

The RCA-KAIST Master's Degree Programme of the Department of Nuclear and Quantum Engineering (NQE) is developed to educate high-caliber students from the RCA Government Parties with the aim to preserve and enhance nuclear technology. Graduates of the Programme have been contributing to the development of nuclear and radiation technology for their countries by working as elite leaders in government-supported R&D institutions or government-funded enterprises and universities.

Since 2003, a total of forty three(43) students from eleven(11) countries have benefited from the Programme. It takes up to two years to complete and students have to meet certain requirements.

## A Global Value-Creative Leading University

- Reuters Asia's Most Innovative Universities 2016-2018: **1st**
- QS University Rankings by Location 2020: **1st**
- QS Top 50 Under 50 Rankings: 2013-2021: **3rd**
- QS World University Rankings 2023: **42nd**

# RCA/KINGS Master's Degree Programme

KEPCO\* International Nuclear Graduate School (KINGS) is an educational institute specialized in Nuclear Power and Energy, established in 2012 to foster energy policy decision makers to respond to energy industry transformation and climate change.

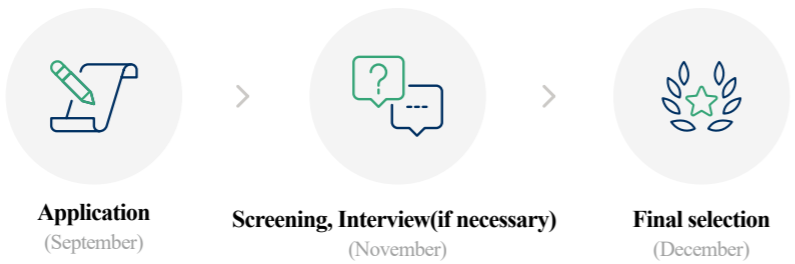
\*KEPCO: Korea Electric Power Corporation

It provides an innovative education system and field practice oriented programmes to produce leadership-level professionals in the nuclear power plant engineering and energy policy.

The Department of Energy Policy and Engineering offers a curriculum that develops the ability to understand and solve the problems that can arise from such a complex system in an integrated way. The programme is designed to produce global energy policy makers and leaders who understand both theory and practice through lectures, practical training and the exchange of experience with fellow students from a variety of backgrounds, including power companies and overseas public institutions.

The Department operates a two-year programme: the first year is spent studying energy policy and engineering, and the second year is spent writing a thesis in applicant's home country.

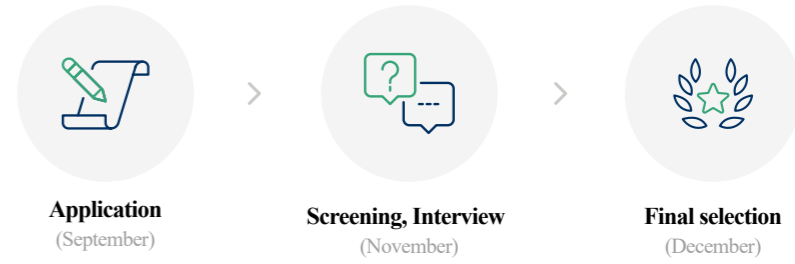
## Eligibility and Selection

Field of study	Nuclear and Quantum Engineering
Number of students selected	Two students per year
Eligibility	Bachelor's or equivalent degree or higher
Criteria	Applications are assessed by KAIST against its selection criteria including applicant's entry requirements. Recommendation letter by the National RCA Representative of applicant's country*
Scholarships	application fee, tuition fees for maximum two years, stipend(one million KRW per month), one-way air ticket from home country to Korea
Timeline**	 <p><b>Application</b> (September) &gt; <b>Screening, Interview (if necessary)</b> (November) &gt; <b>Final selection</b> (December)</p>
Contact	juyeong@kaist.ac.kr, +82-42-350-8511
Admission Guidelines	<a href="https://nuclear.kaist.ac.kr/eng/informaiton/bachelor.php">https://nuclear.kaist.ac.kr/eng/informaiton/bachelor.php</a>

\*Information on the National RCA Representatives can be found at [www.rcaro.org/states1](http://www.rcaro.org/states1)

\*\*Timeline is subject to change. Kindly refer to guidelines for exact timeline for application.

## Eligibility and Selection

Field of study	Energy Policy and Engineering
Number of students selected	Five students per year
Eligibility	Bachelor's or equivalent degree or higher
Criteria	Applications are assessed by KINGS against its selection criteria including applicant's entry requirements. Work experience for one year or more preferred Recommendation letter by the National RCA Representative of applicant's country*
Scholarships	matriculation fee, tuition fees, room and board, round air ticket from home country to Korea and return
Timeline**	 <p><b>Application</b> (September) &gt; <b>Screening, Interview</b> (November) &gt; <b>Final selection</b> (December)</p>
Contact	admission@kings.ac.kr
Admission Guidelines	<a href="https://www.kings.ac.kr/admission/ep.do">https://www.kings.ac.kr/admission/ep.do</a>

\*Information on the National RCA Representatives can be found at [www.rcaro.org/states1](http://www.rcaro.org/states1)

\*\*Timeline is subject to change. Kindly refer to guidelines for exact timeline for application.

# RCA/UST Doctoral Degree or Integrated/Master's Course Programme

University of Science and Technology (UST) is a world-class Science and Technology graduate school jointly established by the Government-Funded Research Institutes (GFRI) in Korea in 2004 to nurture future leaders in the fields of science and technology.

Currently 35 GFRI provide support functioning as Campus and it's regarded as a successful model of HRD center, leveraging industry-academia-research institute cooperation. UST operates a differentiated education system that fosters theoretical knowledge and experience and know-how in the research field by combining common competency education, major(basic/in-depth) education with specialized field education for each campus.


Features and benefits for students include participation in national R&D projects to develop competence in research management, use of high-tech research facilities and infrastructure, opportunity to network with experts in the nuclear field on defined tasks, and hands-on experience at Korean institutes. UST also gives support to students in many directions to find jobs at corporate research centers, GFRI and colleges in Korea after graduation.

This Programme cooperates with two Campuses of the School of Nuclear Science and Technology, KAERI\* and KIRAMS\*\*, and its majors include Nuclear Science and Technology, Radiation Science, Nuclear and Radiation Safety, Artificial Intelligence, and Radiological & Medico-Oncological Sciences.

\* KAERI: Korea Atomic Energy Research Institute

\*\*KIRAMS: Korea Institute of Radiological & Medical Sciences

## Eligibility and Selection

Field of study	Nuclear Science and Technology(Radiochemistry, Quantum energy & Chemical engineering, Nuclear system engineering), Radiation Science(Accelerators & Quantum beams, Radiation life science), Nuclear and Radiation Safety, Artificial Intelligence, Radiological & Medico-Oncological Sciences
Number of students selected	Fifteen students per year
Eligibility	Doctoral degree: Master's or equivalent degree or higher Integrated/Master's degree: Bachelor's or equivalent degree or higher
Criteria	Applications are assessed by UST against its selection criteria including applicant's entry requirements. Recommendation letter by the National RCA Representative of applicant's country*
Scholarships	tuition fees, stipend(approx. one and half million KRW per month), additional two million KRW to cover an initial settlement by the RCARO
Timeline**	 <p><b>Application</b> Spring semester: October Fall semester: May</p> <p><b>Screening, Interview</b> Spring semester: Early December Fall semester: Mid June</p> <p><b>Final selection</b> Spring semester: December Fall semester: June</p>
Contact	f_adm@ust.ac.kr, s_adm@ust.ac.kr
Admission Guidelines	<a href="https://ust.ac.kr/prog/entschGuideline/admission_eng/sub02_01_01/list.do">https://ust.ac.kr/prog/entschGuideline/admission_eng/sub02_01_01/list.do</a>













\*Information on the National RCA Representatives can be found at [www.rcaro.org/states1](http://www.rcaro.org/states1)

\*\*Timeline is subject to change. Kindly refer to guidelines for exact timeline for application.

# Achievements and Support

RCARO contributes to building capacity to meet the needs for human resources development in the field of nuclear science and technology through the RCARO Scholarship Programme and will continue to progress in this regard, attracting and reaching out to the next generation of nuclear professionals of the RCA.

## Selected students by country

 Malaysia	 Mongolia	 Myanmar	 Bangladesh	 Viet Nam	 Sri Lanka
3	2	3	9	3	3
 Indonesia	 China	 Cambodia	 Pakistan	 Philippines	 Thailand
15	2	1	6	4	1

## Status of selected students as of 2023



### Expanding the RCARO Scholarship Programme

The Programme expands to Master's Degree, Doctoral Degree, and Combined Master's and Doctoral Degree Programme.



### Postdoctoral Fellowship

Opportunities to work as a postdoctoral researcher at Korean institutes could be offered.



### Site-Visit

During a vacation, site-visits to the nuclear-related facilities in Korea could be facilitated by the RCARO, subject to availability of budget and facilities.



### Career Support

Support is provided to students to find jobs at corporate research centers, institutes in Korea after graduation.

# Alumni in their career paths

## Samadhi Kaushalye Herath Mudiyansele from Sri Lanka

MSc, PhD studies: Nuclear Engineering in KAIST from 2020 to 2022

Current employment: Research Assistant in KAIST



“Facilitated by the RCARO-KAIST scholarship, I delved into a master's degree in Nuclear and Quantum Engineering at the Korea Advanced Institute of Science and Technology (KAIST), specializing in Uranium Radiochemistry. Currently, I am serving as a research assistant in the Radiochemistry and Laser Spectroscopy Laboratory of KAIST. Looking ahead to my PhD in Uranium Biogeochemistry at the University of Manchester, my gratitude is directed toward the RCARO-KAIST scholarship. This scheme not only supported my master's degree but also embodies education's transformative power. As you stand at your aspiration's crossroads, may your path be lit by inspiration and opportunities, enriched by the promise of the RCA scholarship.

## Hendy Ginanjar Sasmito from Indonesia

MSc, PhD studies: Energy Policy and Engineering in KINGS from 2022 to 2023

Current employment: PT PLN(Persero) \*state-owned electricity company



“Deciding to pursue my Master's degree in KINGS is one of my life-changing experiences. Learning a lot of things that matter through my major in Energy Policy and Engineering suits well with my future life goal to make a dent in humanitarian. As its focuses on diversity, I am exposed to people from different nationalities, and it's such an enriching experience. My biggest takeaway would be the long-term relationships and connections, which I had forged with all KINGS colleagues. I am really glad to be a part of KINGS and I am ready to be a part of the solution and make a world more livable for future generations.

## Hanna Yasmine from Indonesia

MSc, PhD studies: **Nuclear Engineering in KAIST from 2021 to 2023**

Current employment: **National Research and Innovation Agency of Indonesia**



“ Thanks to the RCARO-KAIST Scholarship, it opened the possibilities for me to work as a researcher in the technical fields. Being one of the most prestigious engineering schools in South Korea, KAIST taught me how to conduct resourceful research in the meticulous manner. I learned the insightful Korean work ethics to give our best and explore our limits. Aside from learning about work ethics, I got to learn the collaborative, multi-discipline research with cross-institutions. It was an amazing experience to discover that a nuclear science can be multi-faceted with different expertise involved to address one problem.

Looking back to the experiences that I had and the opportunities that I was given, it was a meaningful lesson for a self-discovery to embrace the better person I can be. I hope that I could contribute to the advancement of nuclear technology adoption in Indonesia and hopefully, be the bridge between RCARO and Indonesia in my new post as a junior researcher in the Nuclear Reactor Technology Research Department.



## Mohammad Sohail Sarwar from Pakistan

MSc, PhD studies: **Nuclear Engineering in KAIST from 2004 to 2007**

Current employment: **Pakistan Atomic Energy Commission**

“ My four year stay at KAIST was wonderful with a very conducive environment for study. All the professors and students at KAIST helped me a lot to make my stay fruitful and joyful. Upon my return to Pakistan in my parent department i.e., Pakistan Atomic Energy Commission (PAEC), I worked many years in the field of Nuclear Safety of Nuclear Power Plants. Later I worked as Director Disarmament and International Training, International Affairs Division, PAEC, Islamabad. I applied experience feedback and lessons learned during my study at KAIST to develop and improve procedures and practices.



**RCA**  
Government Parties

**RCA**

Regional Cooperative Agreement

For Research, Development and Training Related to Nuclear Science and Technology for Asia and the Pacific





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