

NEREC Young Fellows Program (2021)

Nuclear Nonproliferation Education and Research Center (NEREC), KAIST

Purpose To train and nurture next-generation international leaders in nuclear nonproliferation and related nuclear policy

Eligibility Students in good academic standing in major colleges/universities

Period July 11 – August 13 (5 weeks)

Location KAIST (Daejeon) or Jeju Island, South Korea

Program (conducted in English)

- Group research work with international peer students with diverse background on selected topics of nuclear nonproliferation and related nuclear policy issues
- Participation and poster presentation at NEREC Conference on Nuclear Nonproliferation
- Class participation in ‘Nuclear Risk Management’ by Prof. Man-Sung Yim of KAIST
- Field trips to Seoul, Gyeongju, and China and Japan
 - Seoul – Visit to governmental institutions and policy research institutes including the National Assembly, the Ministry of Foreign Affairs, private and government think-tanks, and tour of DMZ area
 - Gyeongju – Visit to major nuclear facilities and research institutes in Daejeon, Gyeongju and Changwon including Korea Atomic Energy Research Institute, Korea Institute of Nuclear Nonproliferation and Control, Wolsong Nuclear power plant, Doosan Heavy Industry, etc.
- Korean cultural events

✳️Due to the on-going Covid-19 pandemic, NEREC Summer Fellows Program will be conducted as on-line and off-line hybrid as in the case of the 2020 program. (Off-line participation may be allowed if the quarantine requirements of South Korean government can be met. More details on how the program is to be conducted will be announced in May.)

Benefits

NEREC covers lodging and meals for non-resident students for 5 weeks and all costs related to field trips, cultural events and conference participation. The benefits amount to approximately \$3,000.

Credits

All students receive Nuclear Nonproliferation Course Certificate upon successful completion. Students from KAIST can

get one course credit by successfully completing this program. Non-KAIST students can get a letter from the Director of NEREC endorsing the award of equivalent course credits from his/her university. (※Note that the letter is unofficial.)

Travel Grants (for applicants from non-OECD countries)

NEREC offers “need-based” round trip airfare to one qualified graduate fellow from non-OECD countries. Applicant who wishes to receive the grant should submit their “NEREC Travel Grant Application” with justification for the need along with their application of the program. The successful applicant will be notified via email approximately by the 4th week of April.

Selection Process

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|--------------------------------|----------------------------|---|
| Application Deadline | March 26 | The application must be submitted online. |
| Evaluation | March 29 to April 9 | Skype interview may be included. |
| Decision Notification | April 12 | by email |
| Confirmation by Student | April 16 | by email |

*NEREC will conduct a reference check via email during the selection process

Application Process

The application package consists of elements below:

- 2021 NEREC Young Fellows Program Application – Resume and personal statement, names/contact info for two references (including your academic advisor)
- Academic transcripts of Bachelor’s degree - A copy of an official one or computer printout is acceptable.
- NEREC Travel Grant Application (only if applicable)

In order to be considered for review, **the application package must be submitted by March 26 to Ms. Jieun Choi at choi11@kaist.ac.kr.**

Preliminary Program for NEREC Graduate Fellows

| | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday |
|------------------------|---------------------------|--|-----------------------|-----------------------------|---|----------|
| W1 (July 11-16) | Lecture | Lecture | Lecture | Lecture | Lecture | |
| W2 (July 19-23) | Lecture | Lecture | Lecture | Lecture | Lecture | |
| W3 (July 26-30) | Lecture Research | Lecture Research | Lecture Research | Group Research Presentation | | |
| W4 (August 2–6) | Research | NEREC Conference on Nuclear Nonproliferation - Poster Presentation | | | Research (Research Paper Writing & Feedback) | |
| | | NEREC Fellows Workshops with International Partners - Virtual Meeting | | | | |
| W5(August 9-13) | Field Trip–Seoul, Daejeon | | Field Trip - Gyeongju | | Commencement Ceremony | |

* The schedule is subject to change.

For more information, please contact:

Ms. Jieun Choi

Nuclear Nonproliferation Education and Research Center (NEREC),

Korea Advanced Institute of Science and Technology (KAIST)

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Nuclear Nonproliferation Education and Research Center (NEREC), KAIST

As Korea's sole university organization on nonproliferation research and training, KAIST NEREC is an academic think tank to undertake education and research to foster international nuclear non-proliferation conducive to peaceful use of nuclear technology. The Center has three objectives: (1) to train and nurture non-proliferation human resources, (2) to conduct non-proliferation policy research combining technical expertise and policy insights, and (3) to engage in discussions on the peaceful use of nuclear technology and various aspects of nuclear non-proliferation.

NEREC Faculty

Dr. Man-Sung Yim is Professor of the Department of Nuclear and Quantum Engineering, Associate Vice President of International Office, and Director of Nuclear Nonproliferation Education and Research Center at Korea Advanced Institute of Science and Technology (KAIST). Previously, he taught at North Carolina State University and at MIT. Dr. Yim is formerly a Fulbright grantee, a member of North Carolina Science Advisory Board on Air Toxics Emissions, Nuclear Nonproliferation External Steering Committee of Idaho National Laboratory, Korean Nuclear Safety and Security Commission Advisory Board, and Advisory Committee for Korean Ministry of Foreign Affairs. He is currently a member of the Scientific Program Committee of CTBTO and serves as Associate Editor (Asia) of *Nuclear Technology* for American Nuclear Society, and a member of Editorial Advisory Board of *Progress in Nuclear Energy* and *International Journal of Nuclear Security*. His research areas are nuclear fuel cycle, nuclear waste management, nuclear safety, and nuclear nonproliferation. Dr. Yim is a graduate of Seoul National University (BS/MS), University of Cincinnati (PhD), and Harvard University (SM/ScD).

Dr. So Young Kim is Professor of Graduate School of Science and Technology Policy and Director, Policy Center for 4th Industrial Revolution, KAIST. She also chairs the national committee on spent fuel policy (Ministry of Industry, Trade and Economy). Prof. Kim has served numerous other governmental committees including Advisory Committee for Fiscal Policy, National S&T Vision Committee, National R&D Program Evaluation Committee, Advisory Committee for the Science & Engineering Workforce Five-Year Plan, and the Committee for Gender Equality in University Faculty Recruitment. Prof. Kim sits on the World Economic Forum's Global Future Council on Technology, Values, and Public Policy as well as on the Expert Panel for the Public Understanding of Risk Institute of the National University of Singapore. Before coming to KAIST, she worked as a data archivist for the Social Computing Center at the University of Chicago and as an assistant professor of political science at Florida Atlantic University. Prof. Kim's research areas include science and technology policy, R&D policy, international political economy, and quantitative methodologies in social science. She graduated from Seoul National University and received PhD from Northwestern University with the support of Fulbright Scholarship

Dr. Hyeon Seok Park is Assistant Professor of Humanities and Social Sciences at KAIST. He currently serves as Deputy Director of NEREC. His research areas include Comparative Politics, International Relations, and Political Economy. He received B.A. and M.A. in political science from Seoul National University and PhD from University of Iowa as Fulbright grantee.

Dr. Sungyeol Choi is Assistant Professor of the Department of Nuclear and Quantum Engineering and Deputy Director of Nuclear Nonproliferation Education and Research Center at Korea Advanced Institute of Science and Technology (KAIST). He was a senior researcher at Division of Nuclear Fuel Cycle Technology Development, Korea Atomic Energy Research Institute. From 2010 to 2012, he was a research fellow at Belfer Center for Science and International Affairs, John F. Kennedy School of Government, Harvard University. He earned Ph.D. in Nuclear Engineering in 2012 and B.S. in Nuclear Engineering (summa cum laude) in 2008 from Seoul National University. In 2008, he authored Lessons Learned from the Development of the Korean Nuclear Power Programme for the IAEA. He has published several peer-reviewed articles related to molten-salt pyroprocessing, fast reactors, nuclear waste disposal, nuclear nonproliferation, and nuclear fuel cycle system analysis.

Dr. Sang-Hyun Lee is Vice President of Research Planning Division at the Sejong Institute, and President of Korea Nuclear Policy Society. He recently served as Director General of Policy Planning at the Ministry of Foreign Affairs, ROK. His research areas include international politics and security, ROK-US relations, inter-Korean relations and security in the East Asia. He received his B.A. from Seoul National University and Ph.D. in Political Science from University of Illinois (Urbana-Champaign).

Dr. Bong Geun Jun is a professor and director-general of the Department of National Security and Unification Studies at the Korea National Diplomatic Academy. Previously, he was a policy advisor to the Minister of Unification, visiting scholar at Keio University, secretary to the president for international affairs at the Presidential Office, and a professional staffer at the Asia Foundation's Center for U.S.-Korea Policy. His research areas include the North Korean nuclear issue, inter-Korean relations, non-proliferation, nuclear security, and nuclear energy policies. He received his B.A. and M.A. from Seoul National University and his Ph.D. in political science from the University of Oregon.

Dr. Kwang Seok Lee has over 25 years of experiences in policy issues surrounding the use of nuclear technology. He recently served as Director of Policy Analysis at Korea Atomic Energy Research Institute. He graduates from Seoul National University (BS) and Virginia Tech (PhD).