

[KIER] Study Proposal of International Admission for 2020 Fall Semester

No.	Major	Research Group (Team)	Study and Research Proposal
1	Advanced Energy and System Engineering	Institute of Renewable Energy	<ul style="list-style-type: none"> · R&D of solar cell, solar power generation and solar heat, etc. · R&D of hydrogen energy technology including hydrogen production technology, hydrogen storage, etc. · R&D of fuel cell technology such as polymer fuel cell, solid oxide fuel cell, and advanced fuel cell technology · R&D of Zero Energy House and, new and renewable energy resource map · Development of marine fusion energy technology including wind technology and salinity, etc.
2	Advanced Energy and System Engineering	Energy Efficiency Materials Research Division	<ul style="list-style-type: none"> · Energy saving technology development · R&D of high efficiency and low pollution combustion technology · Development of unused energy and energy network technologies · R&D of advanced battery and large energy storage technologies · R&D of oxygen and hydrogen membranes, energy conversion materials, carbon and bio–reinforced composite materials, electrochemical material, water electrolysis system, etc.

No.	Major	Research Group (Team)	Study and Research Proposal
3	Advanced Energy and System Engineering	Climate Change Research Division	<ul style="list-style-type: none"> · Development of greenhouse gas capture, conversion and utilization technologies · Development of clean coal and gasification, oil and gas high value added technologies · R&D of biomass production and its high added value technology, alternative fuel and recovery technology from waste resources
4	Renewable Energy Engineering	Institute of Renewable Energy	<ul style="list-style-type: none"> · R&D of solar cell, solar power generation and solar heat, etc. · R&D of hydrogen energy technology including hydrogen production technology, hydrogen storage, etc. · R&D of fuel cell technology such as polymer fuel cell, solid oxide fuel cell, and advanced fuel cell technology · R&D of Zero Energy House and, new and renewable energy resource map · Development of marine fusion energy technology including wind technology and salinity, etc.