

Prof. Mikihiro Nomura

Laboratory name

Separation Systems Engineering Laboratory

Keyword

Carbon Neutral, CO2 Recovery, Water Recovery, Membrane Separation

Tasks in the laboratory

We'd like to contribute to the realization of a carbon-neutral society based on ceramic membrane separation technology. We are developing efficient separation technologies for hydrogen, carbon dioxide and/or waste water. As separation membranes, we have been developing silica membranes and zeolite membranes that can recognize the difference in molecular size, and alkaline ceramic membranes that selectively absorb carbon dioxide.

Program period

No specific period (Not accepting during February and March)

Eligibility-school year

- Third year undergraduate
- Fourth year or higher undergraduate
- First year master degree
- Second year or higher master degree
- First year doctoral degree
- Second year doctoral degree
- Third year or higher doctoral degree

Eligibility-student's major/fields

- Mechanical
- Chemistry
- Material
- Electrical
- Electronic
- Computer Science
- Lifescience
- Mathematical
- Civil Engineering
- Architecture
- Engineering and design

Required skills

Passion for research

Desired skills (Preferred skills)

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URL: https://www.shibaura-it.ac.jp/en/research/lab/engineering/chemistry/mikihiro_nomura.html

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