

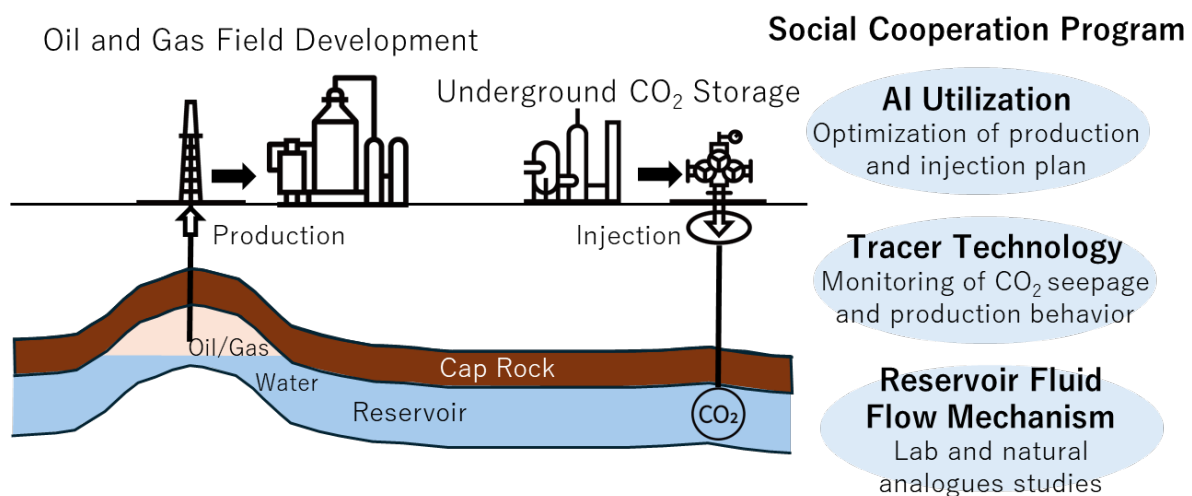
April 1, 2025

The University of Tokyo Graduate School of Engineering
INPEX CORPORATION

University of Tokyo and INPEX Jointly Establish Social Cooperation Program on Advanced Reservoir Engineering for Sustainable Development of Energy Resources

TOKYO, JAPAN – The University of Tokyo Graduate School of Engineering and **INPEX CORPORATION** (INPEX) jointly established a social cooperation program on advanced reservoir engineering for the sustainable development of energy resources on April 1, 2025. The program is intended to promote the research and development of technologies related to oil and natural gas development and carbon capture and storage (CCS) for the stable supply of lower-carbon energy. Program participants will conduct practical engineering research on the development of novel tracer¹ technologies to monitor oil and gas field production characteristics and CCS conditions; the development of optimization technologies for the planning of oil and gas field development and CCS operations utilizing AI; and the interpretation of reservoir fluid flow mechanisms.

¹ Substances used to track the flow of fluid and movement of materials. This program will work on developing bio-inorganic, multi-tracer technology, which uses indicators such as microorganisms and inorganic components existing in geological formations.



Graphic description of program topics

Through the activities of this program, the University of Tokyo School of Engineering and INPEX will conduct research and technological development in reservoir engineering to contribute to stable energy supply and decarbonization, and strive to establish a hub for next-generation reservoir engineering. Furthermore, by promoting the acquisition of technical skills and education in various energy technologies, the University of Tokyo Graduate School of Engineering and INPEX will foster the next generation of reservoir engineering specialists who will lead efforts to build a sustainable society by undertaking resource development and climate change mitigation.

Program outline

Title	Advanced Reservoir Engineering for Sustainable Development of Energy Resources
Duration	April 1, 2025 to March 31, 2030 (five years)
Instructor	Hajime Kobayashi (Associate Professor, Frontier Research Center for Energy and Resources School of Engineering, The University of Tokyo)