

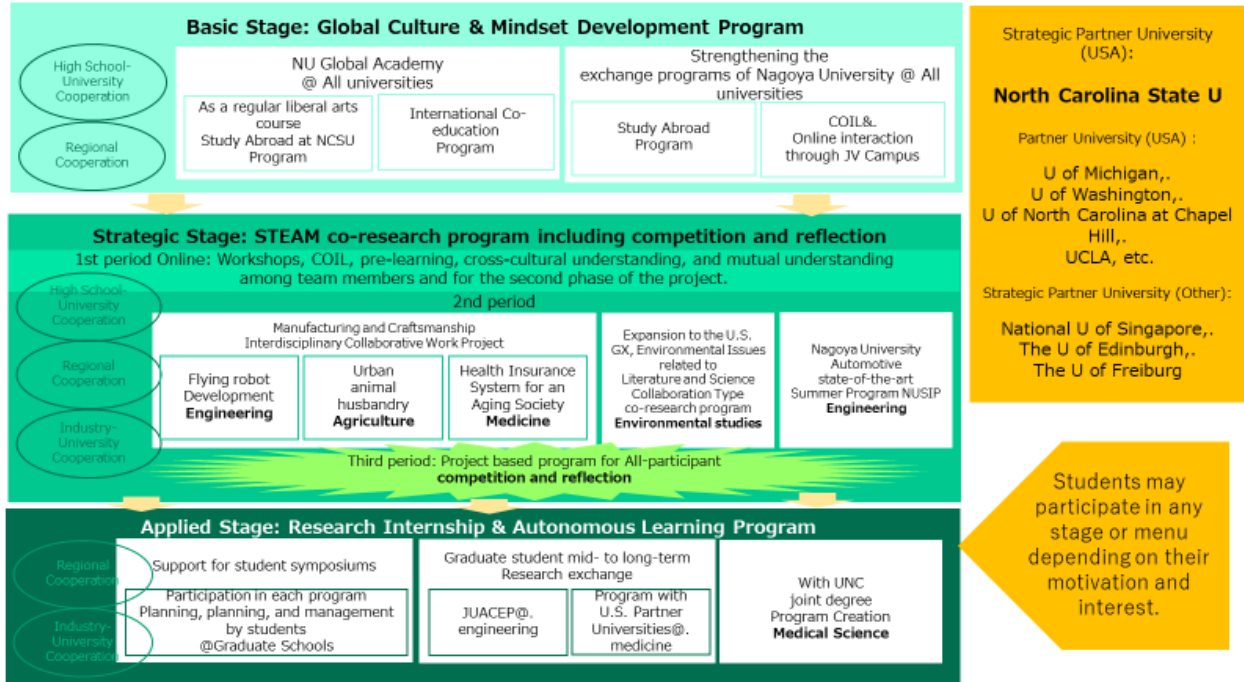
FY2023 Inter-University Exchange Project Nagoya University

Promote Inter-University Exchanges with Universities in the United States

【Name of Project】(Adopted year: FY2023)

Japan-US Interdisciplinary Program Emphasizing Students' Academic Growth

【Summary of Inter-University Exchange Projects】



【Summary of Exchange Program】

This project will offer an interactive research and education program in which Japanese and U.S. students with diverse cultural and academic backgrounds engage in collaborative learning into existing educational programs.

To allow students with different needs and abilities to start anywhere, the program will consist of the following three stages.

1. Basic Stage: Global Culture & Mindset Development Program
2. Strategic Stage: STEAM co-research program including competition and reflection
3. Applied Stage: Research Internship & Autonomous Learning Program

【Global Human Resource on the Project】

We aim to nurture human resources who have the ability to achieve significant differential growth in response to any challenge and who can return and share the results of their own growth with society.

Specifically, regardless of when or where they are faced with a challenge, these individuals have the ability to quickly identify the essence of the issue by demonstrating analytical skills, including the ability to understand the situation and foresee the future, and to take substantive action in collaboration with those involved, as well as the ability to reflect on the process of overcoming difficulties and finding even better ways of doing so.

【Feature on the Project】

Introduce a scheme that allows students to realize their own Academic growth over a certain period of time for all fields of humanities and sciences through Competition and Reflection. Three different stages will be offered based on the starting point of the participating students to provide growth opportunities for any youth.

【Exchange Number】

		2023	2024	2025	2026	2027
Out bound	Students studying abroad	90	105	121	141	142
	Students taking online international education and exchange programs in their home countries	383	533	735	778	810
	Students fulfilling both of the above requirements	5	24	42	44	42
In bound	Students studying abroad	49	103	105	115	115
	Students taking online international education and exchange programs in their home countries	236	315	500	630	655
	Students fulfilling both of the above requirements	4	11	23	41	43

【Japan-US Interdisciplinary Program Emphasizing Students' Academic Growth】

(Adopted year: FY2023)

■ Exchange Programs



〈 Overseas Clinical Clerkship Program at Duke University School of Medicine 〉

1 graduate and 3 undergraduate students from Nagoya University(NU) School of Engineering participated in a Global STEAM Exchange Project visiting the University of Washington(U of W) for 3 weeks in Feb-Mar 2024. While enrolled in the U of W STEP Program, each student designed and carried out his/her own “International Co-Curricular Activity”, which was presented to an audience back at NU. Insights from the execution of this project were shared, among faculty and administration staff, towards planning future exchange programs. Also, an undergraduate student of high excellence and aspiration from the NU School of Medicine was selected to participate in the NU Overseas Clinical Clerkship Program at Duke University School of Medicine. He has completed the program with high honors.

Student-Mobility

○ Outbound

41 NU students dispatched to U of W, Duke, NCSU
117 NU students joined int'l exchange programs online
Through their experiences, participants were further motivated to study abroad.

○ Inbound

45 students traveled to attend NU
81 students joined int'l exchange programs online
NU had provided effective exchange programs for participants.

	2023	
	Plan	Results
Outbound	478	158
Inbound	289	126

■ Forming the University Network with Quality Assurance

NU and North Carolina State University(NCSU) have renewed agreements regarding their Visiting Scholar framework, enabling a bilateral educational and academic exchange.

■ Promotion of Student-Mobility Environment

Ryugaku Academy, which is an introductory international exchange program for NU students, had worked to ensure participants stress-free study abroad experiences by conducting pre-sendoff seminars (such as traveling and living abroad, safety management) and enrolling students in mandatory travel and health insurances. NU School of Agriculture had created a co-operative, in-depth research database called “Speed Dating”, enabling matching students, according to their research, with classes or labs in the US. partner universities.



〈 Ryugaku Academy at North Carolina State University 〉

■ Internationalization of the university, Information disclosure and Publication of outcome

A Japanese-English website and pamphlets introducing the program were released in March 2024. Website consists of 1) Overview, 2) Program Introduction, 3) Participant Recruitment, 4) Achievements, and 5) Event Information, and aims to give updates on the latest news and reports of the many facets of the program. The School of Agriculture had modified their current website on international exchange programs to cater to student needs, by providing information on various programs available for study and research abroad.



〈 Kick-off Event (Lecture by Dr. Shuichi Fukuda, former professor at Stanford University) 〉

■ Good Practices

We've invited Dr. Shuichi Fukuda, whose idea of “differential growth” was employed as the basic theme of the program, to give a kick-off lecture. The importance of “competition” and “improvement through reflection” was shared among faculty and staff affiliated with the program.

A NU student visiting U of W organized an online information exchange seminar between the U of W Student Formula (FSAE) team and NU team. A wide range of topics, technical and administrative, were discussed in depth, and findings were reflected upon by NU team to enhance teamwork and management.



〈 Global STEAM Exchange Project at University of Washington 〉

2. FY2024 Progress

[Japan-US Interdisciplinary Program Emphasizing Students' Academic Growth]

(Adopted year: FY2023)

(1) Exchange Programs

◆**Basic Stage:** After learning about the local challenges facing tourism promotion through online sessions, 18 students from UNC flew in and engaged in a 2-day fieldwork at Mihama, Aichi with Nagoya U. students (International Service Learning Program 2024)

A total of 25 students were dispatched to NCSU in 2024 on short-term programs during spring and summer breaks (Ryugaku Academy Spring and Summer)

In addition, various Japan-US COIL classes were held across schools and departments.

◆**Strategic Stage:** The Graduate School of Engineering accepted SILP(PBL at labs) and NUSIP(automotive engineering) students from 8 universities for 38 days during summer.

The International Joint Project on GX and Environmental Issues conducted COIL with NCSU and UNC, in which some students later participated in exchange visits. The Graduate School of Medicine hosted a session with CU Boulder on "Aging Society and AI" via Virbela in March 2025, and later invited those interested in extending the project to Nagoya in May .

◆**Applied Stage:** The Graduate School of Engineering conducted bilateral mid-long term research internships with partner universities (JUACEP). The Graduate School of Medicine accepted 6 students to their summer international program from 3 US partner universities, and dispatched 4 students to UNC. Student at the Graduate School of Bioagriculture also joined in exchange programs in the field of Forestry and Agriculture. 5 students from the School of Education joined a mid-long term academic internship program at U of Oregon.



<Instagram post by @aichimihama cir >



<first ever SILP students from NCSU>

Student-Mobility

○ Outbound

Total of 296 students were dispatched to 10 US universities,
73 students in-person, 220 students online, 3 students hybrid style.
241 were undergraduate students, and 55 were graduate students.

○ Inbound

Total of 169 students from 23 US universities were accepted,
76 students in-person, 71 students online, 22 students hybrid style.
144 were undergraduate students, and 25 were graduate students.

	2024	
	Plan	Results
Outbound	662	296
Inbound	429	169

(2) Forming the University Network with Quality Assurance

◆Nagoya U. Global Campus at NCSU played an active role in coordinating on and off-line exchanges and collaborations between students, faculty, researchers, public and private sectors, Implementation of numerous research and educational programs in AY2024 were supported by on-site staff from Nagoya U.

◆The Graduate School of Bioagricultural Sciences has set up matching funds with affiliated departments at NCSU to enhance new, as well as on-going collaborations. Moreover, a research seeds portal in English has been in construction to facilitate the matching process for students and faculty to initiate international collaborative research.

◆As an advancement of the current Joint Supervision Program, discussions towards establishing a Joint Degree Program between Nagoya U. Graduate School of Medicine and UNC School of Medicine have been in progress, aiming to finalize the agreement in the coming 3 years.



<Visitation of the Global Campus by Fumio Kishida, former PM of Japan>

(3) Internationalization of the university, Publication of outcome

◆New York University, University of Colorado Boulder, and University of California Davis were recognized as new partner universities in AY2024.

◆Through the process of planning and executing exchange programs, some Nagoya U. program themes or projects have been adopted into course curriculae at partner universities, such as the Flying Robot Project at the College of Engineering at NCSU.

◆Academic writing workshops and seminars on global study and careers given by lecturers from partner universities were arranged for all students interested.



<Japan-US Flying Robot competition @NCSU campus>



<"Challenges for Careers and Research in Global Scales" Workshop @ Nagoya U.>

(4) Good Practices

Various international events were planned and run by students in AY2024

◆In July 2024, students from the Graduate School of Bioagricultural Sciences organized and conducted an international workshop based on design thinking (under guidance of a graduate student involved in the SPRING program).

Students divided into groups discussed agricultural and environmental on-site issues, and presented their ideas for global solutions. Students themselves decided on the rules and evaluation standards for the idea pitch, and made reflections and mutual evaluations afterwards, which provided a true academic experience in which they were able to focus on the process of learning.

◆In November 2024, 4 Nagoya U. graduate students visiting NCSU on a short-term research program organized a cultural event introducing traditional Japanese arts (tea ceremony, *origami*, calligraphy) and toys (*ken-dama*, *menko*, *ohajiki*) at the Nagoya U. Global Campus, to which around 20 students from NCSU participated. The dialogue held between Japanese and American students through this experience helped deepen mutual understanding.

◆Nagoya U. Student Formula Team (FEM) and U of W Formula Motorsports held a 1-hour Zoom session in February 2025 following up on their initial meeting from the previous year. They exchanged technical information, as well as team management and financial issues. Both teams plan to continue this interaction.



(International Student Workshops based on design thinking)



(Japan-US Student Cultural Exchange @Nagoya U. Global Campus in NCSU)



(zoom exchange with the U of W Formula Team (from the Nagoya U Formula Team Mail News March 2025))

(call for International Student Workshops based on design thinking @Nagoya U)

(5) Major Achievements and Outcomes

◆From short-term to long-term study abroad

Some students participating in Ryugaku Academy, a 3-5 week study abroad program, were prompted to advance to 1-year study abroad (student exchange) programs (2 students in AY2024, 3 students in AY2025)

◆Graduate student advanced academic career by winning an international joint research grant

A student at the Graduate School of Bioagricultural Sciences who had visited NCSU in December 2024 acquired a grant from the Japan Society of Erosion Control Engineering to re-visit and follow up on joint research with NCSU collaborators in 2025.

◆NUSIP recognized as outstanding educational program

The Nagoya University Summer Intensive Program (NUSIP) was awarded the 15th Technical Education Award, which was established in 2009 to encourage improvement of automobile-related engineer education by the Society of Automotive Engineers of Japan, Inc. (JSAE)

NUSIP program organizer attended the 2024 JSAE Annual Congress (Spring) award ceremony and gave an oral presentation titled; Nagoya University International Education Summer Intensive Program: "Latest Advanced Technology & Trends in Automobile Engineering."



(NUSIP organizer receiving the Technical Education Award)



◆Presentations and publications of various program outcomes at academic conventions and conferences

○S.Hara, Increasing Motivation for Studying Abroad Through a Compulsory Control Engineering Class, The Society of Instrument and Control Engineers System Integration Division 2024 (SI2024) Proceedings, 3860-3864 (2024-12).

○Susumu HARA, Kazuaki ITO, Internationally Expanding of Flying Robot Design and Production Class at Nagoya and Gifu Universities, Tokai Engineering Complex 2025(TEC25) Proceedings, No.253-1, 412 (2025-3).

○Emanuel LELEITO, Yusuke SAWADA, Candelaria Caleb Johann FERNANDEZ and Susumu HARA, Innovative Pedagogy: Enhancing STEAM Skills in Engineering Students through FSAE-Driven International Seminars, 2024 (72nd) JSEE Annual Conference International Session Proceedings, pp. 20-21 (W-06) (2024-9).

○Inokoshi S, Gomi T, Katsuyama M, Oda T, Wymore AS. (2024, December). Inter-site Comparison of Storage-Discharge Relationships in Forested Headwater Catchments Across Geological Ranges as an Indicator of Critical Zone Architecture. American Geophysical Union Fall Meeting, Washington DC (Vol. 2024, pp. H41B-02).