

Overview

Overview of Global Initiatives Program

The Global Initiatives Program for Promoting Overseas Collaborative Research Toward Graduate Education in Biological Sciences, Nano Science, and Information Technology (Global Initiatives Program) was started with funding from the Japanese Ministry of Education, Culture, Sports, Science and Technology (MEXT) in 2011.

This program aims to establish and develop joint research opportunities for students enrolled at NAIST and our overseas partner institutions. Moreover, the Global Initiatives Program strives to cultivate active members of the global science community and further establish NAIST as a globally recognized graduate education center. The Global Initiatives Program has an annual budget of roughly \$500,000 - \$600,000 (USD) over a 5-year period starting April 2011.



Background

Japanese graduate schools are being called upon to support the rapid redistribution of roles and responsibilities between Japan and the rest of the world. Globalization is essential for the cultivation and application of science and technology in emerging countries experiencing significant economic growth, and is integral to the secondary education that supports these advancements.

The Global Initiatives Program aims to improve global competitiveness by promoting the globalization of NAIST's graduate school education in order to develop global leaders. The program focuses on promoting and facilitating student participation in overseas collaborative research, while utilizing NAIST as a global center for graduate school education.

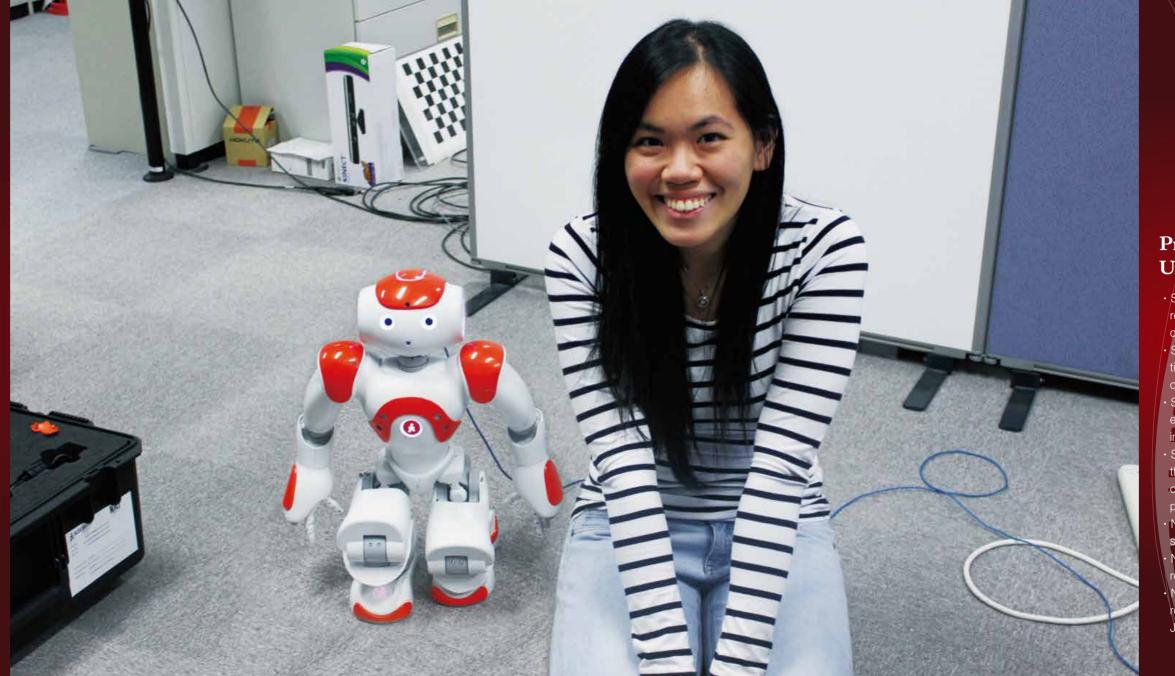


Activities

Program Outline and Eligible Activities

In order to further globalize and increase the level of NAIST's education, the following three types of projects are supported under this program:

- Collaborative Graduate Research: Students enrolled at NAIST and its partner institutions are encouraged to engage in faculty-guided, face-to-face collaborative research. These research exchanges are valuable opportunities for students to participate as members of the global science community.
- 2) International Student Workshops: In cooperation with partner institutions, students participate in international workshops giving presentations and taking part in discussions in English in order to develop communication skills, exchange views on research with fellow graduate students, and develop ties with researchers and students around the globe.
- 3) International Student Internships at NAIST: NAIST invites students from diverse backgrounds to experience NAIST's research and educational environment, further encouraging on-campus global exchange.



Projected Student & University Outcomes

- Students will attain a broad understanding of research and education in the global scientific community.
- Students will have the necessary experience to foster ties and build global networks for future research and collaboration.
- Students will have hands-on experience in various environments, forming a strong base for participation in academia and industry.
- Students will have improved communication skills through a variety of collaboration and communication, and interacting with a diverse population of researchers and students.
- NAIST will set itself apart as a model for graduate school education in Japan.
- NAIST will strengthen its position as a global hub for research and education.
- NAIST's exchange and acceptance of top-level researchers will contribute to the improvement of Japan's academic and research environment.



Student Testimonials

"There were numerous benefits to visiting laboratories which conducted research similar to mine. In this program, I received advice about my research, heard new views on my research, and developed new ideas. I'm grateful for this program."

Taizo Tamura

NAIST Graduate School of Biological Sciences
Participated in collaborative graduate research at
The University of British Columbia, Canada,
March 26 - April 5, 2012

"I came to understand that the exchanging of opinions about research is the most enjoyable and important part of global cooperation."

Manami Tsukamoto

NAIST Graduate School of Materials Science Participated in collaborative graduate research at

University of Michigan, U.S.A.,

September 1 - December 14, 2011

"At NAIST, you not only receive a high standard of education in classrooms with modern facilities, but you also enjoy a peaceful life in a fresh environment. The research facilities of NAIST were excellent, allowing me to carry out my research without any obstacles or difficulties."

Dao Sy Duc

Hanoi University of Science, VNU, Vietnam
Internship student at NAIST Graduate School of
Materials Science,

October 1 - November 20, 2011



Student Testimonials

"To diffuse scientific knowledge, it is really essential to arrange this kind of technical workshop globally. I hope in the future there will be more and more workshops like this one, which will lead the science community towards progress and success."

MD. Zobaer Hasan

NAIST Graduate School of Biological Sciences

Attended an international student workshop at

Universitas Gadjah Mada, Indonesia,

March 14 - 22, 2012

"I realized it is important to discuss and collaborate with other researchers to further my research. This experience, from the background research and experiment development to the actual experiment and presentation, built my confidence and I had a great sense of achievement."

Michiko Matoba

NAIST Graduate School of Information Science

Participated in collaborative graduate research at

Oulu University, Finland,

August 30 - November 26, 2011

"I never imagined that I'd have the chance to be an intern in Japan at NAIST, in an environment so focused on research. It was beneficial to work here with such a helpful professor and students, they tried to help me in every possible way. I met so many different people and learned about so many various things. What I have gained through this summer internship will not only help in shaping my career, but also I feel it has contributed much to my personal development."

Sushant Gaurav
Indian Institute of Technology Rajasthan, India
Internship student at NAIST Graduate School of
Information Science,
May 5 - July 19, 2012



Student Testimonials

"Together with NAIST students and professors, we worked very hard to finish a sub-branch of the collaborative project. The laboratory had many very advanced instruments, allowing for accurate simulation and verification of our ideas."

Li Linfeng

Tsinghua University, China

Participated in collaborative graduate research at

NAIST Graduate School of Information Science, September 26 - October 16, 2011 "I felt honored to work with a professor that is internationally renowned. All of the members of the laboratory were nice and they are very accommodating towards international interns. They helped me understand the research conducted in the laboratory and I learned to work as a team member in research activities. Our conversations were in English, so I was also able to improve my English skills."

Chaiyanan Kulchaisit
Kasetsart University, Thailand
Internship student at NAIST Graduate School of
Materials Science,
April 22 - June 30, 2012

"This experience was amazing. I loved hearing about all the different types of research and interacting with colleagues from across the world. This was a wonderful opportunity to speak with collaborators I had only interacted with via email. While before this program I believed it was easier to collaborate with laboratories only in the US, I now think it is incredibly important to have connections with other scientists around the world. The scientific community is a global one, and we can all benefit from close communication and collaboration."

Mallorie Taylor
University of California, Davis, U.S.A.
Attended an international student workshop at
NAIST Graduate School of Biological Sciences,
November 10 - 17, 2012



Faculty Testimonials

International Student Internships at NAIST

We invite students from our partner schools for the internship program at NAIST. Research interests of the participants are matched beforehand to ensure that they are able to conduct project-based practice or short-term research in the laboratories. As a result, the participants gain new knowledge and perspectives to further their research projects. They also become familiar with the research projects, educational programs and research/educational environment at NAIST and are provided with opportunities to explore Japanese culture.

Hiroyuki Seki, Professor

NAIST Graduate School of Information
Science

NAIST Bio International Student Workshop 2012

I believe that the workshop was an invaluable experience for all participating students and faculty. Students were organized into three smaller groups based on general areas of interest and concurrent sessions were held to allow for longer and more informal talks that encouraged questions and significant group participation. Having students from three different countries sharing rooms, meals and cultural visits, made bonds that I believe will last beyond this experience. The workshop provided a unique perspective into the collaborative and international nature of modern science.

Ted Powers, Professor, UC Davis Invited by NAIST Graduate School of Biological Sciences

Collaborative Graduate Research with James Cook University

Dr. Michael Oelgemöller, Associate
Professor of Applied and Green
Photochemistry Group at James Cook
University in Australia, hosted 2 NAIST
students for 3 months to acquire new
methods of organic compound synthesis
through photo-reaction using various
devices. As a result, my students gained
new research knowledge and skills and
increased their English and communicative
abilities to conduct research in a global
environment. They have also applied their
research experience toward their theses
and presented their work jointly with Dr.
Oelgemöller at conferences.

Kiyomi Kakiuchi, Professor NAIST Graduate School of Materials Science



Participating Partners, FY2011-2012



Australia Belgium Canada China

Université catholique de Louvain The University of British Columbia Changchun Institute of Applied Chemistry, Chinese Academy of Sciences Institute of Genetics and Developmental Biology, Chinese Academy of Sciences

The Hong Kong Polytechnic University

The Hong Kong University of Science and Technology

Hunan University Liaoning University

James Cook University

Northeast Normal University

Soochow University Tsinghua University

University of Oulu

Université Paul Sabatier Jacobs University Bremen

Justus Liebig University Giessen Karlsruhe Institute of Technology

RheinMain University of Applied Sciences Indian Institute of Technology Rajasthan

Bogor Agricultural University Institut Teknologi Bandung

Universitas Gadjah Mada Universitas Indonesia

University of Cagliari

Korea

Thailand

Taiwan

America

Vietnam

United States of

Hanbat National University Pohang University of Science and Technology

Laos Malaysia

National University of Laos University of Malaya Universiti Putra Malaysia

Universiti Sains Malaysia Universiti Teknologi Malaysia

New Zealand United Institute of Technology Philippines Ateneo de Manila University

Mapúa Institute of Technology Chulalongkorn University

Kasetsart University

Mahidol University

National Chiao Tung University University of California, Davis University of Hawai'i at Mānoa

Macromolecular Science and Engineering Center,

University of Michigan

Biotechnology Institute, University of Minnesota

Hanoi University of Science, VNU Institute of Biotechnology,

Vietnam Academy of Science and Technology Institute of Information Technology,

Vietnam Academy of Science and Technology

Institute of Materials Science,

Vietnam Academy of Science and Technology VNU University of Engineering and Technology



Nara Institute of Science and Technology http://www.naist.jp/en/