

## Graduate Programs

IMS promotes pioneering and outstanding researches by young scientists as a core academic organization in Japan. IMS trains graduate students in Departments of Structural Molecular Science and Functional Molecular Science, Graduate School of Physical Sciences, the Graduate University for Advanced Studies (SOKENDAI). By virtue of open seminars in each research division, Colloquiums and Molecular Science Forum to which speakers are invited from Japan and all over the world, as well as other conferences held in IMS, graduate students have regular opportunities to be exposed to valuable information related to their own as well as other scientific fields. Graduate students can benefit from these liberal and academic circumstances, all of which are aimed at extending the frontiers of fundamental molecular science and to facilitate their potential to deliver outstanding scientific contributions. Recently, we started Course-by-Course Education Program in Graduate School of Physical Sciences. Students choose one of the courses of Basic, Advanced research skills, Project research, and Development research, and can stay abroad, join some big projects, or stay in private companies to improve their research achievements. For more details on Departments of Structural Molecular Science and Functional Molecular Science, young scientists are encouraged to visit IMS through many opportunities such as the IMS Open Campus in May, Graduate-School Experience Program (Taiken Nyugaku) in August, Open Lectures in summer and winter, Asian Winter School, *etc.*



## International Collaboration and Exchange Programs

IMS has accepted many foreign researchers and hosted many international conferences and workshops as an international research institute in the field of molecular science since its establishment in 1975. We have several international collaboration and exchange programs based on our strategic budget as follows:

- (1) Long term stay (more than 3 months)
  - Visiting Professorship Program •IMS International Internship Program (IMS-IIP-L)
- (2) Short term stay (less than 3 months)
  - Invited Researcher Program •IMS International Internship Program (IMS-IIP-S)
  - Asia/Oceania International Internship Program (EXODASS)
- (3) International use of IMS facilities (1–2 weeks)
  - UVSOR International Collaboration Program •Nanotech-Japan International Collaboration Program
- (4) International conferences and workshops
  - Okazaki Conference •Mini-International IMS Workshop •Asia/Oceania IMS Workshop
  - IMS Asian CORE Workshop •IMS International Winter School

In addition to these programs, we have several inter-institutional collaboration programs in molecular science with leading universities and institutes in foreign countries.



## Joint Studies Programs

As one of the important functions of an inter-university research institute, IMS facilitates joint studies programs for which funds are available to cover the costs of research expenses as well as the travel and accommodation expenses of individuals. Proposals from domestic scientists are reviewed and selected by an interuniversity committee. See the details on pages 106–108. The programs are conducted under one of the following categories. In addition to the normal programs, IMS provides “Urgent Joint Studies Programs” for the researchers suffering from the earthquake on March 11, 2011 to recover and rebuild their research activities at March, 2011. We continue to provide this supporting programs in 2013. In this programs, the proposals in the category 4, 5, 6, and 7 are accepted.

- (1) Joint Studies on Special Projects (a special project of significant relevance to the advancement of molecular science can be carried out by a team of several groups of scientists).
- (2) Research Symposia (a symposium on timely topics organized as a collaborative effort between outside and IMS scientists). Four sub-categories are set up in Research Symposia. Two of the four are international workshops. The other two are (i) general type as in the past, and (ii) Research Symposia in cooperation with scientific societies in Japan.
- (3) Research Symposia graduate students plan.
- (4) Cooperative Research (a research program conducted by outside scientists with collaboration from an IMS scientist).
- (5) Use of Facilities (a research program conducted by outside scientists using the research facilities of IMS, except the UVSOR facility and the Computer Center).
- (6) Facility Program using beam lines of UVSOR Facility.
- (7) Facility Program using supercomputers of the Research Center for Computational Science.

