

## Guidelines for GIMRT Collaborative Research at the Center of Neutron Science for Advanced Materials

1. Application guidelines  
The Center of Neutron Science for Advanced Materials, Institute for Materials Research, Tohoku University (hereinafter referred to as the “Center”) calls for proposals for collaborative research. Proposals should promote neutron science and collaborative research using the neutron spectrometer (POLANO) jointly operated by the High Energy Accelerator Research Organization (KEK) and by the Center at the Materials and Life Science Experimental Facility (MLF) of the Japan Proton Accelerator Research Complex (J-PARC).
2. Applicant qualifications
  - (1) Faculty members at national/public/private universities and technical colleges and full-time researchers belonging to national research and development corporations, and full-time researchers at national or public research institutes may apply as principal investigators.
  - (2) Proposals can contain faculty members, Ph.D and undergraduate students, and graduate students at technical colleges (with specified supervisors) as co-investigators.
  - (3) Overseas researches holding the equivalent status as above can also apply.
3. Application procedure  
Please download an application form from the website <https://imr-kyodo.imr.tohoku.ac.jp/?lang=en> and submit it to the GIMRT office by e-mail
4. Application deadlines for the present call  
December 20 (Thursday.), 2018.
5. Proposal category and notice
  - 1) The first proposal category is the neutron experiment at MLF in the collaboration with the Center. The application must justify the necessity of collaborative research with the Center and the objectives and plans of the experiment(s) to be carried out at POLANO. Note that the latter can be replaced by a copy of the proposals submitted to MLF. For details, see the application form.
  - 2) The second proposal category is a collaborative research with the Center aims to promote joint research projects such as research on new neutron scattering techniques and neutron data analysis without performing real neutron experiments.
  - 3) For domestic user, we strongly recommend to apply at December round to ensure the travel support. Urgent research proposal can be accepted for other calls in March, June and September, however, availability and support may be limited.
  - 4) International applications can apply for one of four calls in each year. The acceptance rate depends on the number of applications and the availability.
  - 5) An urgent proposal will be accepted only very limited case given that we open four calls every year. Hence, an extremely high evaluation score and the necessity is required.
4. Research period  
The research should be conducted from April 1, 2019 to March 31, 2020 for December call. The period will be notified in the acceptance letter for other calls.
5. Contact address  
GIMRT-office, Research Cooperation Division, General Affairs Section, Institute for Materials

Research, Tohoku University  
2-1-1 Katahira, Aoba-ku, Sendai, Miyagi 980-8577, Japan  
Phone +81-22-215-2183  
FAX +81-22-215-2184  
Email gimrt-office@imr.tohoku.ac.jp

6. Outcome  
The Proposal Committee of the Center will review and select the application. Applicants (principle investigators) will be notified directly around the end of March 2019. The matching with the scopes and the missions of the Center is the one of the most important review criterions.
7. Support  
The Center supports experiments and analyses for approved proposal. Travel expenses will be reimbursed for both domestic and overseas users. However, the coverage depends on the numbers of the applications and the available budget of the Center.
8. Report for the Collaborative Research  
The principle investigator shall submit the “Collaborative Research Report” through the GIMRT user system. The detailed will be informed at the acceptance letter.  
If the report cannot be submitted for some reasons, a statement of reasons or progress report must be submitted. Contact the Center for additional information.
9. Submission of research results  
Results obtained through the collaborative research should be published as a paper within three years. Please make sure that authors acknowledge the Center in the manuscript, and state that the research was conducted under collaborative research with the “Center of Neutron Science for Advanced Materials, Institute for Materials Research, Tohoku University.”  
Example are shown below:
  - 1) This work was performed under the GIMRT program (Proposal No. \*\* \*\*\*) of the Cooperative Research and Development Center for Advanced Materials, Institute for Materials Research, Tohoku University.
  - 2) This work is a GIMRT collaborative program (Proposal No. \*\* \*\*\*) of the Cooperative Research and Development Center for Advanced Materials, Institute for Materials Research, Tohoku University.

\* When publishing the manuscripts, please submit a one copy to the Center.
10. Handling of intellectual property rights  
Intellectual property rights generated as a result of research shall conform to the Tohoku University Joint Research Regulations.
11. Miscellaneous
  - 1) Applications written in English are acceptable.
  - 2) POLANO is a neutron scattering instrument that can investigate atomic-scale dynamics. The instrument is installed in MLF at J-PARC, Tokai, Ibaraki, Japan. Neutron scattering Experiments will be carried out in MLF. For instrument specifications and applicable experiments, contact the Center in advance.
  - 3) In the use of POLANO, follow the regulations of MLF.