

Request for donations

1. Donation program

Donations for the publicity and nurturing of personnel under the Yoshio Nishina Memorial Project

2. Project utilizing the donations

(1) Project name

Project to create and maintain a Yoshio Nishina exhibition facility and host memorial events

(2) Purpose

In 2006, the RIKEN Nishina Center for Accelerator-Based Science (RNC) was founded as a research center named after Dr. Yoshio Nishina, the father of nuclear physics in Japan, and has produced numerous findings on transmutation, including the discovery of a new element, nihonium, a first for Japan. The cyclotrons installed by Nishina achieved many developments that cross generations. The RI Beam Factory, which began operation in 2007, has the world's most powerful superconducting ring cyclotron and leads the world in nuclear physics. Moreover, the heavy ion beams and radioisotopes created at this facility are not only used for basic research, but also contribute to many social activities including industrial application in areas such as transmutation engineering, medicine, ion beam breeding, and aerospace.

After returning to Japan from Europe, Nishina set up his laboratory in RIKEN's former headquarters in the Komagome area of Tokyo in 1931, creating a research environment based on the Copenhagen Spirit—a spirit of cooperation, free debate without ceremony, and commitment with humor. Also known in Japan as the father of particle and theoretical physics, cosmic ray research, nuclear physics experimentation and research, nuclear engineering, and more, Nishina inspired young, Japanese physicists, including future Nobel prize laureates Hideki Yukawa and Shinichiro Tomonaga, with his lectures on new science. Along with mentoring Yukawa and Tomonaga to an international standard, Nishina had achieved many accomplishments including building Japan's first cyclotron for use with his experiments in nuclear physics.

The Nishina Memorial Foundation recently granted RIKEN historical materials that belonged to Nishina, such as a desk, chair, and letters. To convey Nishina's achievements to future generations, an exhibition (Yoshio Nishina Memorial Laboratory) will be constructed for visitors and members of younger generations, such as students, with Nishina's laboratory being recreated with the donated materials to show a glimpse of the open nuclear physics research of the time.

The funds will be used to establish and maintain the new facility, as well as for maintenance of the attached existing "Cyclopedia" facility for regular visitors. The facilities will be operated integrally, and a site will be created where visitors will be able to learn about topics ranging from the rapid emergence of nuclear physics to the latest research conducted at RNC. This facility will serve to foster interest in nuclear physics and science and in the long-term, contribute to nurturing future scientists.

Together with a ceremony to commemorate the completion of the facility attended by persons concerned who have made history in their respective fields by honoring Dr. Nishina's legacy, a symposium to discuss how the future of Japanese research, social infrastructure, and nurturing of personnel should move forward will be held. In

addition, we will create PR media channels to disseminate to the public information on the facility's completion and its significance.

(3) Project description

i. Representative

Hiro Yoshi Sakurai, Director
RIKEN Nishina Center for Accelerator-Based Science

ii. Project outline

- Create memorial laboratory and operate and maintain a PR facility
- Personnel expenses for guides who will provide explanations of the exhibits
- Development of PR channels

3. Donation call amount

10 million JPY

100,000 yen per contribution (we kindly ask for more than one contribution)

4. Donation call duration

August 1, 2022 to March 3, 2023

5. Spending plan (guide)

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|--|----------------|
| • Development of memorial laboratory (one portion) | 4.5million JPY |
| • PR facility maintenance and management fees | 1 million JPY |
| • Personnel expenses for guides | 3 million JPY |
| • Development of PR channels | 500,000 JPY |
| • General management fees | 1 million JPY |

6. Call procedures/methods

- Call will be posted on a RIKEN external site
<https://www.riken.jp/en/>
- Call will be posted on the RIKEN Nishina Center for Accelerator-Based Science website:
https://www.nishina.riken.jp/index_e.html

7. Special privileges for donating

For interested parties who have donated 100,000 JPY or more:

- Invitations to events and others hosted by the Center
- Name included on a specially created website if interested
- Name inscribed on tablet installed at the Memorial Laboratory if interested

8. Inquiries

RIKEN Nishina Center for Accelerator-Based Science
Nishina Center and iTHEMS Promotion Office

E-mail: [nishina-kifu\[at\]riken.jp](mailto:nishina-kifu@riken.jp)

(Please replace [at] with the @ symbol before sending your email.)

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