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**- Full-fledged operation finally begins in FY 2021 -**

**Call for proposals for research projects that make the best use  
of the world's fastest supercomputer Fugaku! <sup>\*1</sup>**

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We are now seeking proposals for research projects accessing the computational resources of the HPCI system<sup>\*2</sup> including Fugaku in FY2021.

Fugaku is scheduled to be in full operation in FY2021, and this is the first call for the research projects to access Fugaku after the full-scale operation starts.

The supercomputer with the world's highest performance, Fugaku, has developed the HPCI system into a more powerful research infrastructure. Along with accelerating research that requires enormous amount of computing power of HPCI, we are seeking to respond new needs, such as research in fields that Japan has promoted with priority and requests for easier access<sup>\*</sup>. We are developing an environment where a wider range of researchers can use the HPCI system. Through the full-scale operation of Fugaku, we aim to promote utilization of the HPCI system and accomplishment of research achievements at an early stage, contribute to the development of science and technology, enhance industrial competitiveness, and realize an affluent society by Society 5.0.

<sup>\*</sup>The computer resources of Fugaku are allocated preferentially to certain research themes which meet urgent social demands as follows:

- Prevention of infectious diseases

- Fundamental technologies for next-generation computing

We also plan to issue calls with improved convenience as follows:

- Half-year startup access

- Accepting applications throughout the year for small scale projects

- Starting with shorter screening periods

Research Organization for Information Science and Technology (RIST, President Yasuhide Tajima) is the Registered Institution for Facilities Use Promotion (the Registered Institution) based on the "Act on the Promotion of Public Utilization of the Specific Advanced Large Research Facilities", and the Representative for HPCI Operation commissioned by MEXT. On October 6, 2020, RIST will start accepting submissions of research proposals using the computational resources of the HPCI system including Fugaku in FY2021.

For projects using Fugaku, two calls for proposals are issued each year: the first is for projects that will run for one year beginning in April<sup>※2</sup> (Period A); the second is for those beginning in October (Period B). This call is for Period A of FY 2021.

In addition, projects that will run for half a year between April 2021<sup>※2</sup> and September 2021 are solicited (“Startup Promotion projects”). The objective is to help projects prepare for application for Period B of FY 2021 or Period A of FY 2022.

The call for proposals for research projects using the HPCI System other than Fugaku is issued once per year as usual, which will run for one year beginning in April 2021<sup>※2</sup>.

The outline is as follows. The detailed information will be posted on the HPCI portal site (<https://www.hpci-office.jp/folders/english>).

### <Project Types and Project Period>

This call targets projects that apply the computational resources of the HPCI system, including the flagship system Fugaku as shown in the table below. We will inform you about projects that can be applied at any time by the end of March, 2021.

System	Project Types	Project Period <sup>※2</sup>
Fugaku	General Access <sup>※1</sup> Junior Researchers Industrial Access	Apr. 1, 2021 – Mar. 31, 2022 (one year)
	Startup Promotion	
HPCI shared computational resources	General Access Junior Researchers Industrial Access	Apr. 1, 2021 – Mar. 31, 2022 (one year)
	Shared computational resources managed by the own rules of the HPCI resource providers <sup>*3</sup>	

※1 “Priority areas” are set under the General projects of Fugaku based on government policies and social conditions for each fiscal year. Proposals in priority areas will be given preference in the selection process.

※2 The whole system of Fugaku may not be available through the project period. Availability will be influenced by the maintenance status, etc.

<User fee> None / charged (shared computational resources managed by the own rules of the HPCI resource providers)

### <Schedule>

- Call for proposals : Tuesday, August 25, 2020
- Online submission opens : Tuesday, October 6, 2020
- Online submission closes : 5 PM, Thursday, November 5, 2020 (JST)
- Deadline of printed project proposals with stamps or signature:  
Wednesday, November 18, 2020 (must-arrive)

Announcement of awards : Middle of February, 2021

### <Online briefing meetings (For those who are considering applying)>

Online briefing meetings are scheduled as follows:

- 1) Thursday, September 24, 15:00 - 16:30
- 2) Thursday, October 8, 14:00 - 15:30

Advance application is required.

Please apply from the HPCI portal site (<https://www.hpci-office.jp/folders/english>).

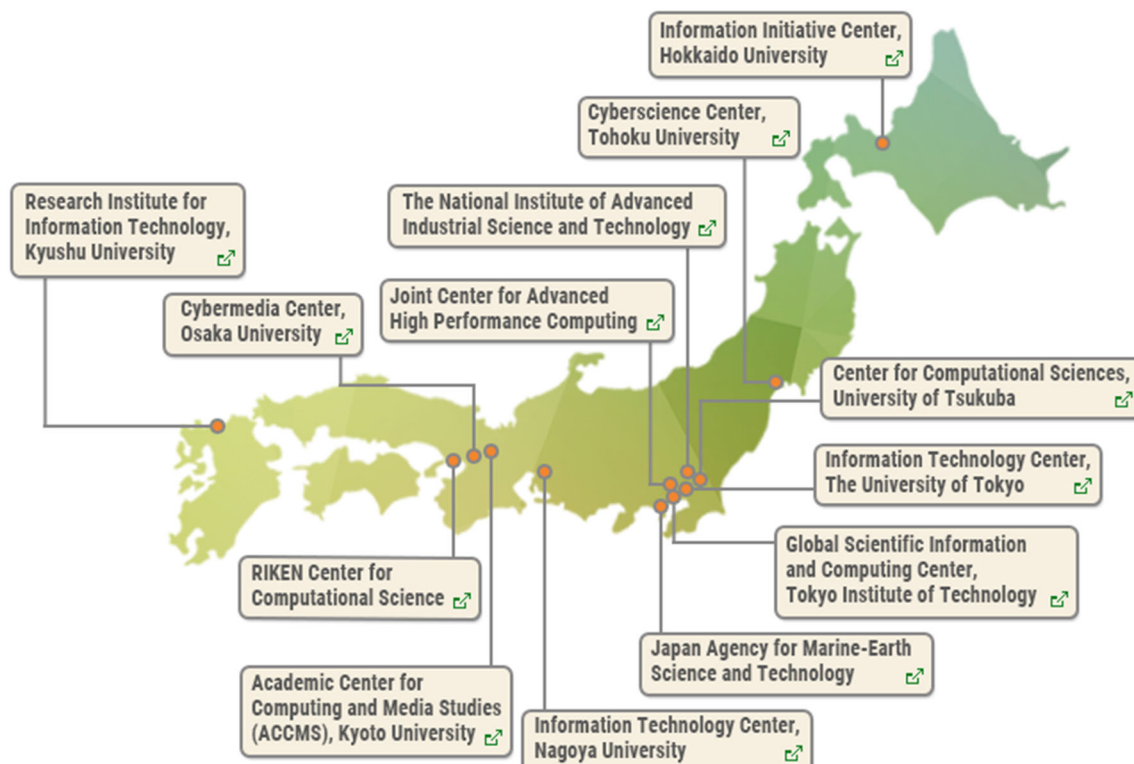
Note: Briefings will be given in Japanese.

### (\* 1 ) supercomputer Fugaku

The supercomputer Fugaku is being developed by RIKEN as the successor to the K computer. Fugaku has taken first place on four supercomputer performance rankings in June 2020, has the best performance in the world. Fugaku is scheduled to begin full operation in fiscal 2021. For more details, please refer to RIKEN Center for Computational Sciences website (<https://www.r-ccs.riken.jp/en/fugaku/>).

### (\* 2 ) HPCI (The innovative High-Performance Computing Infrastructure)

HPCI is a research platform that Japan is proud of, established by MEXT. As shown in the figure below, it connects supercomputers and other equipment installed at national universities and research institutions, including Fugaku installed at RIKEN, with a high-speed network to realize an innovative shared computational environment that accommodates diversified needs of the users. For more information, please refer to the HPCI portal site (<https://www.r-ccs.riken.jp/en/fugaku/>).



### **(\*3) Shared computational resources managed by the own rules of the HPCI resource providers**

The computational resources are operated as HPCI shared resources, but the projects will be awarded according to the rules of the resource providers instead of going through the HPCI's comprehensive selection process. In FY 2021, the ABCI system from the National Institute of Advanced Industrial Science and Technology (AIST) will be provided as a charged computational resource.

#### **◆Contact information**

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