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NOTA DINAS

Nomor : ND- 8225/UN2.F1.D1.4/PPM.00.00/2023

Yth. : Para Peneliti dan Pengabdian FKUI  
Dari : Manajer Riset dan Pengabdian Masyarakat  
Lampiran : satu berkas  
Perihal : Informasi Call for Proposal Hibah Akses untuk Riset *Supercomputer* FUGAKU

Sehubungan dengan adanya surat dari Direktur Riset dan Pengembangan nomor ND-1723/UN2.RST/PPM.00.00/2023 perihal Informasi Call for Proposal Hibah Akses untuk Riset *Supercomputer* FUGAKU, bersama ini kami informasikan bahwa RIKEN *Center for Computational Science* (R-CCS) memberikan kesempatan kepada mahasiswa, dosen, dan peneliti di Indonesia untuk melakukan riset dengan memanfaatkan kecanggihannya FUGAKU, superkomputer tercepat ke-2 di dunia dengan kapasitas 442 PetaFLOPS.

Batas waktu pengumpulan proposal paling lambat **31 Desember 2023**. Terlampir kami sampaikan panduan pengusulan proposal. Untuk informasi lebih lanjut dapat melalui surel [fugaku@1945.id](mailto:fugaku@1945.id).

Demikian informasi ini kami sampaikan, Atas perhatian dan kerjasamanya yang baik, kami ucapkan terima kasih.

23 OCT 2023

Manajer Riset dan Pengabdian Masyarakat,



*Rahyussalim*  
Dr. Rahyussalim, Sp.OT(K)  
NUP 0108050351



NOTA DINAS

Nomor : ND-1723/UN2.RST/PPM.00.00/2023

Yth. : Para Manajer Riset Fakultas dan Sekolah  
Dari : Direktur Riset dan Pengembangan  
Perihal : Informasi *Call for Proposal* Hibah Akses untuk Riset *Supercomputer*  
FUGAKU

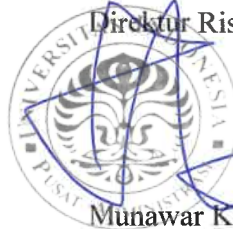
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Demikian informasi ini kami sampaikan. Mohon dapat disampaikan ke para civitas akademik di lingkungan fakultas masing – masing. Atas perhatian Bapak/Ibu, kami ucapkan terima kasih.

20 Oktober 2023

Direktur Riset dan Pengembangan,



Munawar Khalil, S.Si., M.Eng.Sc., Ph.D.

NUP 10011161023280689 *nd*

## ASEAN Call for Proposals for Fugaku Trial Projects

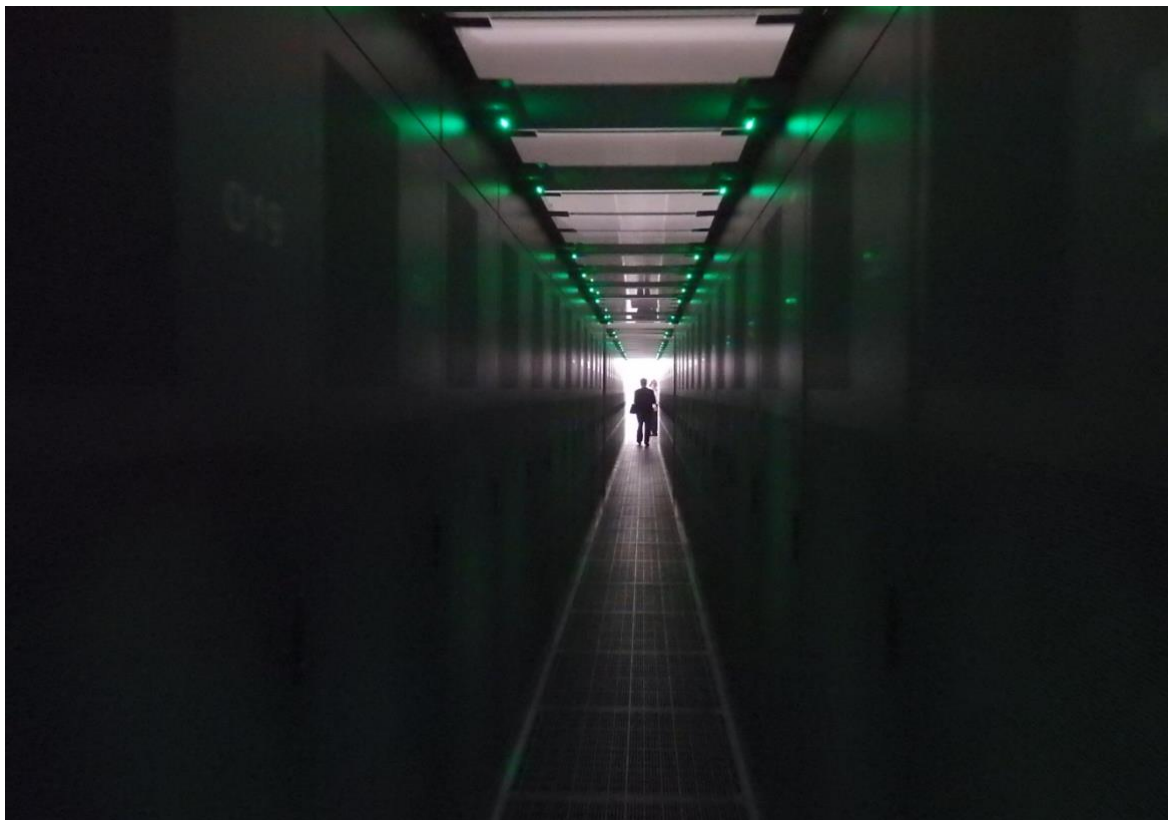


### Overview

The A\*STAR Computational Resource Centre (A\*CRC) is soliciting proposals from ASEAN member states (AMS) for **trial access** to Supercomputer Fugaku for the ASEAN HPC region, as part of an agreement between A\*STAR Computational Resource Centre (A\*CRC) and RIKEN Center for Computational Science (R-CCS).

Supercomputer Fugaku is a 442 PFlop/s Arm-based parallel supercomputing resource at R-CCS, is currently the #2 Top500 system and is available as part of the High Performance Computing Infrastructure (HPCI) in Japan.

This call for proposals is to give AMS users a chance to test their applications on the Fugaku system and to gain knowledge in its use to evaluate it as a potential shared resource for future ASEAN HPC activities.



## Timeline

|                             |                          |
|-----------------------------|--------------------------|
| Application Period:         | 4-Oct-2023 – 31-Dec-2023 |
| Proposal review:            | Jan-2024                 |
| Final results notification: | By 31-Jan-2024           |
| Trial access to Fugaku:     | Feb-2024 – Jul-2024      |

## Call Details

Each proposal application is required to provide the following information:

- A representative named for the proposal. This person must be a resident within an ASEAN country.
- A brief plan on the use of the Fugaku supercomputer, including statements and reasons for the purposes of the trial access.
- State what current or previous HPC resources you have used before for your HPC applications.
- An estimate of the number of core-hours your project intends to use. Note that the total amount of resources for this Fugaku trial will be limited to 8,000,000 core-hours in total, divided amongst all the proposals.
- An estimate of storage requirements for your proposal.
- The list of software required to use for the proposal.

AMS users selected for this call will be required to submit a user report to A\*CRC within 60 days after the Fugaku Trial has ended.

## Application Submission

### aot

Please submit your proposal using the application form to A\*CRC [here](#).  
(Respective QR codes below).



We look forward to receiving your applications.

## Enquires

Feel free to [contact us](#) with any further enquiries, or you can visit our [Events](#) webpage.

## Sample of Previous Project Titles

Chemistry (Theoretical Examination of Reaction Dynamics of Hydrated Carbon Dioxide Radical Anion)

Chemistry (Reversible phase transition in coordination polymers and metal-organic frameworks)

Custom software (A Parallel Multithread Multi-Deque QuickSort (PMDQSort) Algorithm based on OpenMP)

Custom Software (Evaluating the Performance of Fully Automatic Adjoints for Numerical Applications)

Python/AI (Poverty Mapping Estimation with Deep Learning on Satellite Imagery Data, Case Study: Java, Indonesia)

Python/AI (Exploration of deep learning model for bathymetry inversion)

Chemistry (Theoretical study of solvent effects on the hydrogenation of 5-hydroxymethylfurfural (HMF) over non-noble metal catalysts)

Quantum Chemistry (Electronic, Vibrational, and Optical Properties of isolated and solid-state epicatechin and hydrated epicatechin systems: DFT study)

Chemistry (First-principles study of transition metal and nitrogen co-doped graphdiyne as cathode materials of lithium-sulfur batteries)

Quantum Chemistry (High-throughput Density Functional Theory calculations on monometallic and bimetallic transition metal alloys for electrocatalysis)

Molecular Dynamics (Evaluating GROMACS and Python Interface for Molecular Dynamic Simulation for Amorphous Organic Semiconducting Thin Film)