or more main memory ; 50TB or more SSD (NVM Express). Minimum requirements for a System B node : theoretical computing performance of 4.7TFLOPS or greater ; 56 or more CPU cores ; 512GiB or more main memory for at least 50 nodes, and 1TiB or more main memory for at least 30 nodes. Both systems require software for computational biology, especially for genome analysis.

C　Computational chemistry server consists of System A with 60 or more nodes, and System B with 12 or more nodes. Minimum requirements for a System A node : theoretical computing performance of 4.7TFLOPS or greater ; 56 or more CPU cores ; 512GiB or more main memory. Minimum requirements for a System B node : theoretical computing performance of 5.7TFLOPS or greater ; 64 or more CPU cores ; 1024GiB or more main memory ; 2 or more GPUs, equivalent to or higher than NVIDIA B200 (180GB memory) and supporting Cuda libraries. All nodes require software for computational chemistry.

D　GenomeNet public server. Minimum requirements : 12 or more nodes, each of which includes 128 or more CPU cores and 768GiB or more main memory.

E　GenomeNet development server. Minimum requirements : four or more nodes, each of which includes 128 or more CPU cores and 1.5TiB or more main memory.

F　Infrastructure server consists of 16 or more nodes.

(a)　Development server : Minimum requirements for three or more nodes : each node possesses 64 or more CPU cores ; 1.0TiB or more main memory.

(b)　Database server : Minimum requirements for two or more nodes : each node possesses 16 or more CPU cores (each core with a clock rate of 3.6GHz or faster) ; 256GiB or more main memory ; a relational database system.

(c)　Virtual machine server : Minimum requirements for two or more nodes : each node possesses 32 or more CPU cores ; 512GiB or more main memory.

(d)　Operation management server A : Minimum requirements for three or more nodes : each node possesses 32 or more CPU cores ; 256GiB or more main memory.

(e)　Operation management server B : Minimum requirements for six or more nodes : each node possesses 32 or more CPU cores ; 512GiB or more main memory.

G　Login server consists of 3 or more nodes. Minimum requirements for a node : theoretical computing performance of 3.10TFLOPS or greater ; 512GiB or more main memory ; 1 or more GPUs, equivalent to the GPU on Computational chemistry server System B and supporting Cuda libraries.

H　System administration server consists of 2 or more nodes, each of which possesses 32 or more CPU cores and 128GiB or more main memory.

I　Network disk system. Minimum requirements : 2.1PB or more of physical capacity, and 1.2PB or more (effective capacity) of network file system ; 27PB or more of physical capacity, and 20PB or more (effective capacity) of distributed file system.

J　Disaster recovery backup storage system must be 1.2PB or more (effective capacity).

K　The following servers must be connected with high-speed networks of at least 10Gbps for server connection : GenomeNet computation server System A, Login server, GenomeNet public server, GenomeNet development server, Infrastructure server, and System administration server. The network for this server connection must be connected with KUINS and SINET through Firewall. A VPN facility must be provided for the access from and to outside of the system.

L　The following servers must be connected with high-speed networks of at least 10Gbps to constitute a NAS system : GenomeNet computation server, Computational chemistry server, Login server, GenomeNet public server, GenomeNet development server, Infrastructure server, System administration server and the network file system.

M　The following servers must be connected with high-speed networks of at least 800Gbps : GenomeNet computation server, Computational chemistry server, Login server, GenomeNet public server, GenomeNet development server, Infrastructure server (except Operation management server B), System administration server and the distributed file system.

N　The seven servers, two disk systems and network systems must be connected to UPS that can supply electricity for five minutes continuous operation upon the electric power failure.

O　The disaster recovery backup storage system must be connected to UPS that can supply electricity for five minutes continuous operation upon the electric power failure.

P　Cooling system must be effective enough to support a stable operation of the entire system. Take measures to reduce power consumption.

Q　15 Windows laptop PCs for courses.

(5)　Time limit for the submission of the requested material : 17 : 00　8 May, 2026

(6)　Contact point for the notice : Hisashi Uchida, Procurement And Accounting Section, Accounting Division, Administration Bureau of Uji Campus, Kyoto University, Gokasho, Uji-shi, 611―0011 Japan TEL 0774―38―3375
email address :
uji.sisan@mail2.adm.kyoto-u.ac.jp

資料提供招請に関する公表

次のとおり物品の導入を予定していますので、当該導入に関して資料等の提供を招請します。

令和８年３月26日

国立大学法人大阪大学総長　熊ノ郷　淳

◎調達機関番号　415　◎所在地番号　27

○第６号

１　調達内容

(1)　品目分類番号　14

(2)　導入計画物品及び数量　大阪大学全学教育用電子計算機システム　一式

(3)　調達方法　借入

(4)　導入目的　本システムは、対面とオンラインの学習活動を効果的に組み合わせたブレンデッド教育を実現可能とする情報教育基盤を整備することを導入の目的とするものである。

(5)　導入予定時期　令和９年10月以降

(6)　調達に必要とされる基本的な要求要件

導入を計画している大阪大学全学教育用電子計算機システムは、情報教育システム、言語教育システム、箕面教育システム、業務支援システムから構成されるシステムであり、その基本的要求要件は以下の通りである。

Ａ．情報教育システムは、コンピュータを用いた基本的な利用方法からプログラミングなどの高度な計算機利用技術にわたる一貫した情報教育カリキュラムに対応可能なシステムであること。学内及び学外から、仮想デスクトップ環境にアクセスして各種サービスを利用できること。

Ｂ．言語教育システムは、高度な情報教育・言語教育に必要となる映像や音声等を含むマルチメディア情報の処理能力に優れた端末システムであること。ノート型端末を利用した授業の他に、タブレット端末を利用したアクティブラーニング型式の授業にも対応できること。