certificate issuance machine, a tuition claim system, a tuition waiver／scholarship system, a job placement support system, and a student health management system. These systems should contain generally required elements within the system, and it's acceptable to have a different configuration if it meets the requirements of sections B and below.

B　Additional Elements to the System

The system described in A should include the following elements or be easily expandable to include them, even by staff without technical skills, as needed :

a　Real-time student support : Integration of an AI chatbot that can respond in real-time to students' problem-solving and questions.

b　Data analysis function : Data analysis tools to improve student performance and the efficiency of academic affairs.

c　Inclusion of a grading and learning management system : A system that allows faculty to distribute materials to students, have them submit assignments, and allows students to track their own progress.

d　Building a learning community : An online community space for students to share questions and have discussions.

e　Learning evaluation function : A learning evaluation function that allows students and faculty to evaluate the student's learning from their pre-enrollment status to their post-graduation activities, based on diploma policies, etc.

f　Course and survey functions : Necessary training／lecture and related mandatory survey functions and result data analysis tools.

C　Mobile Device Compatibility

As a principle, at least the parts where students can input or refer should be compatible with mobile devices.

D　Data Inheritance and Migration

It must be possible to inherit and use the data held by the current system completely. When migrating data, the vendor must complete the migration work by using the data output in the file format provided by the university, and take appropriate measures so that it can be used in the new system without any problems.

E　Access and Response Performance from Inside and Outside the School

The system should be accessible via the school's information network and networks outside the school. The system should be capable of maintaining adequate response times for up to 1,000 simultaneous accesses.

F　Data Linkage

The system must be able to seamlessly link data with the university's existing systems, unified authentication system, personnel system (COMPANY), accounting system, and any system to be newly developed in the future.

G　Security and Safety

The system must be robust and possess high security. It should be designed so that network policies and detection of unknown viruses are possible not only for external connections, but also for intra-university communication.

H　Operational Status and Maintenance Structure

The system should always operate in good condition and have a maintenance support system to ensure safety against external threats.

I　System Operating Environment

The environment in which the system operates should be an off-campus cloud, on-premises, or hybrid cloud, and the system should be operable on a virtualized server and have high fault tolerance.

J　Advanced Technology

The system should have an architecture backed by the latest technology and be a highly advanced system that matches current technological trends.

K　Provision of Cloud Services

If it is possible to provide the system as a cloud service, related documents should be proposed together. The system should also support multi-factor authentication and SSO (Single Sign-On).

L　Equipment Configuration and System

The system should consist of various servers, terminal computers, and other related devices. The main systems include DNS server, E-Mail server, license server for statistical processing software, authentication server, thin client system (VDI, thin-provisioning method), AD server, file server, backup server, edge router, firewall, L3 core switch, and web proxy server for servers. The university has adopted Microsoft Office365 (A1). It should safely synchronize Azure Active Directory with the university's AD information.

M　System Safety and Maintenance Structure

A support system should be provided that can prevent system failure and respond immediately when a failure occurs. Also, the vendor should proactively provide information about the vulnerabilities, version upgrades, and end of support for the introduced system, including records of such provisions and innovations.

N　User Training

After the system is introduced, users can conduct operation method training at any time. Provide on-demand explanatory videos, training content, and operation manuals to ensure that users can understand and operate the system correctly and securely.

O　Provision of Reference Materials and Comments

The vendor should provide general reference materials, comments on each requirement, and materials about available libraries.

(5)　Time limit for the submission of the requested material : 17 : 00　21 August, 2023

(6)　Contact point for the notice : WADA Tetsuaki, Accounting Division, Hamamatsu University School of Medicine, 1—20—1 Handayama Higashi-ku Hamamatsu-shi 431—3192 Japan, TEL 053—435—2553

資料提供招請に関する公表

次のとおり物品の導入又は特定役務の調達を予定していますので、当該導入又は調達に関して資料等の提供を招請します。

令和５年７月３日

国立大学法人豊橋技術科学大学

事務局長　中西　幸博

◎調達機関番号　415　◎所在地番号　23

○第１号

１　調達内容

(1)　品目分類番号　14、27

(2)　導入計画物品又は調達計画特定役務及び数量　基盤情報システム　一式

(3)　調達方法　借入又は購入等

(4)　導入予定時期　令和６年９月

(5)　調達に必要とされる基本的な要求要件　本調達は、大学の各種運営業務に対する柔軟な情報基盤環境を提供するコンピュータシステムを対象とする。

基幹業務システムを実行及びバックアップするための仮想化基盤システム、および職員が各種業務を実施するためのシンクライアントシステムを含むこと。

２　資料及びコメントの提供方法　上記１(2)の物品に関する一般的な参考資料及び同(5)の要求要件等に関するコメント並びに提供可能なライブラリーに関する資料等の提供を招請する。

(1)　資料等の提出期限　令和５年８月７日17時00分（郵送の場合は必着のこと。）

(2)　提供先　〒441—8580 豊橋市天伯町雲雀ヶ丘１－１　国立大学法人豊橋技術科学大学経理課契約係　王生麻衣子　電話0532—44—6515