

Invitation for Faculty Position Applications at the Department of Digital Green Technology, Faculty of Science and Technology, Sophia University

The Faculty of Science and Technology at Sophia University is inviting applications for full-time faculty positions at the Department of Digital Green Technology (establishment in progress/to be newly established in April 2027), as follows.

1. Name of faculty position and number of persons to be employed:

Eight faculty positions are available, and the number of persons to be employed for each position is as follows. The position to be offered to successful applicants will be determined on the basis of their educational background, research achievements, etc.

- (1) Two or three professor positions (tenured position)
- (2) Two or three associate professor positions (tenured position)
- (3) Three assistant professor positions (five-year tenure-track position; possible promotion)

2. Work location: Yotsuya Campus, Sophia School Corporation/Sophia University

*This may be subject to change within the campus designated by the corporation.

3. Field of expertise:

The fields related to Digital transformation (DX) and Green transformation (GX), with utilizing digital technology focusing on data science. Specific areas include:

- A) Digital technology application areas with a focus on data science (machine learning, (generative) AI, natural language processing, network computing, IoT, etc.)
- B) Chemistry, physics, mechanical engineering, and electrical and electronic engineering as applications of digital technology focusing on data science (materials informatics, process informatics, bioinformatics, drug discovery informatics, self-driving technology, robotic informatics, energy management systems, smart cities, design informatics, etc.)

4. Teaching duties: Successful applicants will be responsible for teaching the following subjects in accordance with their field of specialization.

Assistant professor: Undergraduate lecture subjects (approx. four subjects/year), undergraduate laboratory subjects, research project for graduation, graduate school lecture subjects, general subjects

Professor/associate professor: Graduate school guidance subjects, in addition to the assistant professor's teaching duties

*This may be subject to change within the scope of business specified by the corporation.

5. Overview:

- All subjects in this department are taught in English. Therefore, successful applicants must be able to teach all subjects in English, including when guiding students through their research projects for graduation.
- The department aims to develop human resources who can realize a sustainable society, as expressed by keywords such as decarbonization and SDGs, by utilizing data science and digital technology. To achieve this goal, we are looking for individuals who can promote not only education and research in the fields of data science and digital technology themselves, but also education and research on their engineering applications.
- Please refer to the attached material for information regarding human resources to be nurtured by the department, the diploma and curriculum policies, and the list of courses offered (all of which are provisional and subject to review in the future). You may also refer to the landing page (<https://fst.sophia.ac.jp/department/dgtech>).
- The successful applicant will manage a laboratory independently and mentor undergraduate and graduate students in their research projects.
- Sophia University is founded on the teachings of Christianity and the Catholic spirit, and one of the pillars of education at the Faculty of Science and Technology is its outstanding internationalism. We are

seeking people who understand not only the University's founding spirit but also its high degree of internationalism and English language-oriented educational policy, with enthusiasm for education, research, and university management. In addition, we are looking for individuals who are actively engaged in teaching and research and who can effectively fulfill the duties essential to the University, including those related to entrance examinations.

6. Qualifications for application:

- The applicant must have obtained or be on track to obtaining a doctoral degree by the time they assume the position.
- The applicant must be able to give lectures and guide research in English.

7. Employment start date: April 1, 2027

Employment is contingent upon the approval of the department's establishment. Please note that the employment start date is set for April 2027, as the application for the establishment will be filed in 2026. Additionally, because the list of faculty members will be submitted to the Ministry of Education, Culture, Sports, Science and Technology during the application for establishment, applicants are requested not to decline an offer after accepting it.

8. Documents to be submitted:

- (1) Curriculum vitae that includes the following (with a photograph of the applicant): name, contact e-mail address, post-high school educational background, employment history, society activities, awards (use A4 size paper)
- (2) List of research achievements (use A4 size paper)
- (3) List of accepted research funds such as a grant-in-aid for scientific research (use A4 size paper)
- (4) Reprints of approximately five major research papers (or DOI of published paper)
- (5) Summary of past research activities (approx. two sheets; use A4 size paper)
- (6) [For applicants with teaching experience] Summary of past teaching activities (use A4 size paper)
- (7) Research plan and teaching aspirations if accepted for the position (approx. two sheets; use A4-size paper)
- (8) Names and contact details of two reference persons

*Please send the application documents as separate PDF files in a single ZIP file to the e-mail address provided below. You may use a file transfer service if the file size is too large to send by e-mail. Please provide your name, professional affiliation, telephone number, e-mail address, and postal address (including postal code) in the body of your e-mail.

E-mail: dgtech-co@sophia.ac.jp (Planning Office for the Department of Digital Green Technology, Sophia University)

E-mail subject name: "Application for full-time faculty position at Sophia University's Department of Digital Green Technology (applicant's name)"

*We will issue an acknowledgment of receipt by email after receipt of the application email. Please contact us again if you have not received the acknowledgment of receipt email after more than one day.

*Personal information in the submitted documents will be used solely for the faculty position screening process and managed appropriately in accordance with the Act on the Protection of Personal Information.

9. Deadline for application: All documents shall be sent and received by Monday, June 30, 2025

10. Inquiries on application:

Planning Office for the Department of Digital Green Technology, Sophia University

7-1 Kioi-cho, Chiyoda-ku, Tokyo 102-8554

Phone/Fax: 03-3238-3477

e-mail: dgtech-co@sophia.ac.jp

*No inquiries on screening details or results will be accepted.

11. Screening method:

- First screening: Screening of documents
- Second screening: A second screening shall be conducted only for those who pass the first screening.

Candidates will be asked to explain their aspirations for education and research after assuming their post, introduce their own research, and give a mock lecture in public, after which they will be interviewed. Selection will be made based on a comprehensive assessment of the content of these interviews. Applicants will be contacted directly to schedule the interview date and time.

12. Others:

- The screening details will not be made public.
- The submitted documents will not be returned.