

The Japanese version is the authoritative version, and this English translation is intended for reference purposes only. Should any discrepancies or doubt arise between the two versions, the Japanese version will prevail.

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The Ministry of Education, Culture, Sports, Science and Technology (MEXT) promotes the "Project for Establishing University Fellowships for the Creation of Innovation in Science and Technology" with the aim of fostering and securing creative researchers who will assume essential roles for the future creation of science, technology and innovation in Japan.

Recently, MEXT selected Hiroshima University to establish Fellowships within the following four research categories: information/AI, quantum physics, materials, and sustainability science. As a result, Hiroshima University has established the Hiroshima University Graduate School Research Fellowship to train advanced research personnel who can lead the creation and utilization of new wisdom, create value that will tow the next generation, and bring science and technology innovation to society. The Fellowship will recruit and select Research Fellows from amongst 1st-year doctoral students of graduate schools and programs related to information/AI, quantum physics, materials, and sustainability science, and provide them with financial and career support so that they concentrate on their research. The program provides the Fellows with stipends and research expenses as financial support. Furthermore, the tuition fees of the Research Fellows will be exempted (depending on the Japanese government's budgetary measures).

On this occasion, there is a vacancy amongst the Fellows, hence why a call for applications for a replacement Fellow (support planned to start from April 2023) is being undertaken.

**1. Number of Positions**

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r e p g j q	B g g g n l n d b t l a c b Q a g l a c l b C l e g c c p j e @ q a A f c k g r p N n e p k - n n j g b A f c k g r p N n e p k - A f c k g a j C l e g c c p j e N n e p k - c a f l g a j C l e g c c p j e N n e p k - N f q a q N n e p k - O s l r s k m e p N n e p k - Q k p r G l n t r g n l N n e p k ' B g g g n l n d b t l a c b Q a g l a c l b C l e g c c p j e n p n e p k q m f c p r f l r f n u c j g r e b n t c ' B g g g n l n d G r e e p r e b Q a g l a c q d h p J g c j j n p n e p k q	n n p m , 4
Q s q r g g i g Q a g l a c	B g g g n l n d s k l g g c q l b Q n a g j Q a g l a c q G r e p l r g n l j C a n l n k g a B e t c j m k c l r N n e p k ' B g g g n l n d b t l a c b Q a g l a c l b C l e g c c p j e R p l q b g a n j d p Q a g l a c l b C l e g c c p j e N n e p k ' B g g g n l n d G r e e p r e b Q a g l a c q d h p J g c j j n p n e p k q B g g g n l n d G r e e p r e b F c j r f Q a g l a c q N n e p k n d @ g n k c b g a j Q a g l a c '	n n p m , 2

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## 2. < c c p

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1' r f c q r p r n d r f c s n n n p \* n n j g l r q k s q r L M R c s n n n p r e b r f c d n j m g e d i j m q f g r m e f n j p a f g n q 8 P e c e p a f D e j j m q f g r m e W h s l e Q a g l r g r q d n k r f c H n l Q n a g r d n p r f c N n k m g e Q a g l r g r q a j s b g e r f n u c H Q N Q f q s l n d a g j j q e j a r c b

H n l e c e E n t e p k c l r R' Q a f n j p a f g n q d n p g r e p l r g n l j q s b e l r q ,

1' q a f n j p a f g n q d n k r f c f n k c a n s l r g e q n d g r e p l r g n l j q s b e l r q ,

2' r f c q r p r n d r f c s n n n p \* n n j g l r q k s q r L M R c s n n n p r e b l d e j j m q f g r m e f n j p a f g n q n d t p c b j n a j n s j a e e l a g c n p g r e n p e l g r g n l q f e p m e n t g e l r q p e l n r j j m c b n e m e n t g e r f c g e e l r q a f n j p a f g n r f c q k c r g k c q r f c P e c e p a f D e j j m q f g r m e

3' n n j g l r q k s q r L M R c s n n n p r e b r f c N n e p k d n p B e t c j m g e l b Q n n n p r e f c L e r E e l c p r g n l n d G l n t r g c P e c e p a f c p q r F g n f g k S l g e p a g r r f c F g n f g k S l g e p a g r D e j j m q f g r m e D e k j e E p b s r e Q s b e l r q g Q a g l a c l b R e a f l n j n e g a j s b g e r f n u c F g n f g k S l g e p a g r f q s l n d a g j j q e j a r c b

( G g n n u c g j e m n n j d n p r f c N n e p k d n p B e t c j m g e l b Q n n n p r e f c L e r E e l c p r g n l n d G l n t r g c P e c e p a f c p q r F g n f g k S l g e p a g r \* f a f e i m a n i b s a r g e a j j d n p n n j a r g n l q r f c q k c r g k c , n n j g l r q f m e n t d n p m f D e j j m q f g r m e P e c e p a f D e j j m q f g r m e l b f c L e r E e l c p r g n l D e j j m q f g r m e i j m e n t b f a f e i m a n i b s a r g e n s j l e j g c m n p n g e m a c r f c n n j a r g n l q r f c q n c c b , N j c q e l m e r f r e n g a n i j j e a r c b d n c n d r f c D e j j m q f g r m e n r m f ,

## 3. Application Methods

Please access the online application form (Google Forms) from the following URL, enter each item, and submit it. The n n j g l r q E m e j e a a n s l r b c r g j q (the domain is gmail) and password authentication are required for access.

<Online Application Form > <https://forms.gle/zN6ebB2sZBez7vWL9>

- \* Please upload your application documents file saved in PDF format.
- \* The application documents may be either in color or black-and-white.
- \* The application documents must be filled-out and submitted according to the program's specified format without modification. If you apply using documents which are different from the specified format, your application may not be screened.
- \* If you are unable to apply using the online application form, please send an email to "8. Contact Information".

## 4. Application Deadline

March 3 (Fri), 2023, 12:00 p.m. (noon, Japan Standard Time)

\* The Fellowship office will not accept any submissions after the appropriate deadline has passed.

## 5. Selection Process and Notification of Results

The Screening Committee for the research field of the Research Fellowship will conduct the First Screening (screening of the submitted application documents) and the Second Screening (screening via an interview). Applicants will proceed to the Second Screening only if they successfully pass the First Screening. The Committee will announce the date and time of the interview to each applicant individually.

G b b g n l \* p e p b g e r f c c t j s r g n l n d c a f n n j g l r \* l c k n f q g g n j a c b n l r f c n n j g l r q a n g i g r m a n l r p g s r c m p g e q a g l r g a l b r e a f l n j n e g a j g l n t r g n l q r m H n l e c e q n a g r g r f c d e r s p e q n d r f c p u r p o s e o f t h i s p r o g r a m . P l e a s e n o t e t h a t d e p e n d i n g o n t h e r e s u l t s o f t h e F i r s t S c r e e n i n g , t h e S e c o n d S c r e e n i n g m a y n o t b e u n d e r t a k e n .

- First Screening (planned): Mid-March, 2023
- Second Screening (planned): Late March, 2023
- Notification of Results (planned): End of April, 2023

All applicants will be notified of the screening results for the Fellowship by e-mail. Please note that individual inquiries regarding each decision will not be able to be responded to.

## 6. Outline of Support after Selection

For further details, please refer to the application guidelines. For more information, please contact the office.

\* Please note that the period of support and the handling of research funds are different for this call for applications than for the general call for applications because this is a call for applications for replacement of Fellow.

- Period of support: Until the final day of the originally planned period of support for the Fellow being replaced.
- Research funds: The remaining amount of the Fellow being replaced will be provided.

## 7. About the Research Field

### <Information/AI>

The information/AI research field promotes the acquisition of technologies necessary for the realization of Society 5.0. Besides, we are developing leading human resources that can open up new possibilities and meet the needs of the international community. This research field aims to develop human resources with both AI/information expertise and application field expertise. Therefore, we will select and support excellent doctoral students motivated to match that direction.

### <Quantum Physics>

In the quantum physics research field, viewing quantum phenomena scale-seamlessly in the area from elementary particle physics, physics of solids such as electron spin-driven superconductivity, strongly correlated electrons, quantum magnetism, topological material as well as macroscopic photonics such as quantum optics, photonic quantum information and nano-photonics, to astrophysics such as a black hole and dark matter, we welcome the applicants who aim to open the physics of new quantum phenomena and develop novel quantum physics-based electronic and photonic devices. We also welcome the applicants who desire to open a new paradigm in such mathematics-related to quantum physics as quantum groups and quantum walks.

### <Materials>

In the materials research field, we encourage each Research Fellow to cultivate a strong desire for knowledge, enhance their comprehensive viewing capabilities, and improve their transferable skills by promoting cross-disciplinary and integrated education and research activities to develop personnel who can play an active role in both industry and academia and contribute to the strategy for strengthening material innovation, toward the realization of Society 5.0.

### <Sustainability Science>

In the field of sustainability, we provide interdisciplinary educational programs necessary to solve global issues such as poverty, conflict, infectious diseases and environmental problems, in order to build a sustainable society. This program develops human resources who understand the complex interdependence between natural environmental systems and human social systems from a macro perspective on a global scale and a micro perspective at the regional level. We hope that these human resources will have the ability to propose and implement problem-solving methods by means such as the social implementation of science and technology, policy planning, and collaboration with stakeholders in any aspect of the world.

## 8. Contact Information

Hiroshima University Graduate School Research Fellowship Application Office (Global Career Design Center)  
E-mail: [fellowship@office.hiroshima-u.ac.jp](mailto:fellowship@office.hiroshima-u.ac.jp)

## <Outline of Support by Hiroshima University>

### 1. Research Fellow Support

(1) In order to support the Research Fellows and their research, stipends will be provided for up to three years after their entry into the University.

(2) However, if it becomes necessary for a Research Fellow to return to their home country for childbirth, marriage, or other reasons, the stipend support period will be up until the end of the support period of three years.

(3) The stipends are taxable as a miscellaneous income in the student's tax return.

Furthermore, if a student with dependents (parents, etc.) is selected as a Research Fellow, they will be excluded from their dependents. Therefore, if a student has dependents (parents, etc.) that the stipends they receive are not taxable as miscellaneous income under Japanese tax law. For the procedures required to change your status of dependents at the workplace of your dependents (parents, etc.)

(4) The stipend will be funded from the academic year in which the student is selected as a Research Fellow. The maximum amount of research funds for an academic year is 150,000 yen.

(5) For international students and others who are selected as Research Fellows, as a general rule, the stipends and research funds will be provided for up to three years after entering Japan (non-entry). Furthermore, any period of non-entry will be treated as a period of support.

(6) In addition to the aforementioned stipends and research funds, the tuition fees of research Fellows will be supported by the University.

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#### 4. Repayment of Excess Stipend Payments and Research Funds

If the period of support is shortened due to early completion, cancellation of support, etc., the payment of the stipends will be stopped at the end of the shortened support period, and any excess amount which has been paid will need to be returned. Also, in principle, the research funds will also need to be returned in proportion to the number of months the support period was shortened by.

#### 5. Others

(1) As long as it does not require resignation, or work part-time.

(3) Any personal information included within the application documents and any other necessary personal information provided by the graduate school to which an applicant belongs to, will be used only for the purposes of the selection of candidates, preparation for acceptance, education/research guidance, etc.