Assistant Professor (EMCRs for International Research Excellence) at FRIS

Research Activity Plan

【Note】

* Ensure your descriptions are understandable to reviewers who are not specialists in your field.
* Delete all red-ink notes before submitting the form.
* Use a minimum font size of 10.5 points.
* Adhere to page limits for major sections; adjust sub-section line counts as necessary.
* Insert figures and tables as appropriate.

Name of Applicant:

Research Area of Interest: < Please select >

Research Title:

Research Keyword(s) (Up to three):

Mentor (Candidate)

Name:

Affiliation and Position:

E-mail:

The mentor must be a full-time professor or associate professor at Tohoku University.  
 (visiting or specially appointed faculty members are not eligible)

The applicant understands the internal regulations on mentors.

The applicant has obtained the mentor's approval of the regulations.

Both the applicant and the mentor have reviewed the checklist for internal regulations on the mentor of FRIS.

The mentor has agreed to accept the applicant.

■Relationship between the applicant and the mentor, and independence of the applicant during the proposed research and in future career development

(If nominating the applicant’s doctoral supervisor or the representative of the currently affiliated laboratory to be the mentor, please explain how the applicant’s independence as a PI will be secured and why the proposed research cannot be carried out elsewhere.)

■The applicant's action plan or thoughts on promoting DEI at FRIS

(Please ensure that the content up to this section fits within one page.）

1. **Outline of the proposed research activity plan (1 page)**

(Please provide a concise outline of your research activity plan, using diagrams where appropriate to enhance clarity for reviewers who may not be specialists in your field. Please ensure that the outline clearly addresses the key perspectives detailed in the following sections, including ‘Section 2. Own research area and achievements in the field of expertise’, ‘Section 3. Objectives and Details of the Research’, ‘Section 4. Interdisciplinarity’, ‘Section 5. Independence’, and ‘Section 6. Excellence’.)

1. **Own research area and achievements in the field of expertise (1 page)**
   1. **Own research area**

(Please provide a review of the current status and trends in your field of expertise.)

* 1. **Achievements in the field of expertise**

(Please describe your past research achievements, highlighting their significance and contributions to the relevant field. Refer to the ‘list of research achievements’ and ‘description of up to five major papers or up to five major achievements’ as needed to clarify their relevance.)

1. **Objectives and details of the research (2 pages)**

(Please describe the objectives and content of your future research, taking into consideration the current status and trends of your specialized field as discussed in 'Section 2. Own research area and achievements in the field of expertise'. This institute places strong emphasis on original research that incorporates insights from other disciplines. Clearly explain the significance and originality of your research, particularly with regard to its interdisciplinary aspects. Additionally, outline the research activities planned for the first five years following your appointment, expected outcomes, and the mid-to-long-term vision beyond this period. If the fields you aim to integrate are likely to be perceived as the same field by researchers outside your discipline—despite being distinct in terms of approach, methodology, or interaction among researchers—please clarify these distinctions and the context behind them.)

1. **Interdisciplinarity (1 page)**

Describe your achievements, motivation, and feasibility in interdisciplinary research while leveraging expertise in your field and collaborating with researchers from other disciplines.

* 1. **Interdisciplinary knowledge applied to advance research and achieve objectives**

(Describe the interdisciplinary knowledge applied to advance the applicant's research and achieve its objectives, emphasizing the key points outlined in 'Section 3. Objectives and details of the research’.)

* 1. **Interdisciplinary experience, achievements, and multidisciplinary knowledge and skills**

(If you have experience or achievements in interdisciplinary collaboration, describe the diversity of the academic fields and institutions involved, the collaborative research you have created, and your participation in interdisciplinary activities, highlighting your contributions. Additionally, describe how your knowledge and skills spanning multiple fields have contributed to your research or how you have attempted to integrate them. Refer to your ‘CV’ and ‘list of research achievements’ to clarify relevant accomplishments and activities.)

1. **Independence (1 page)**

Describe your achievements, motivation, and feasibility in managing a research lab as a Principal Investigator (PI) while exploring independent research topics.

* 1. **Originality of the research topic**

(Describe the originality of your research topic, taking into consideration the current state and trends in your field. Clearly position your research within this context while incorporating your past achievements. In particular, describe how your research differs from that of your former advisors and your prospective mentor's laboratory. Emphasize the unique development and novelty of your work. Refer to your ‘CV’ and ‘list of research achievements’ as needed to connect relevant research outcomes and accomplishments.)

* 1. **Research laboratory management plan**

(Describe your research lab management plan by outlining the allocation of research funds provided in the first year of your appointment. Present your vision for the laboratory, including the composition of laboratory members, establishment of research space, and acquisition of external research funding. Additionally, explain your plan to achieve independent research laboratory management as an associate professor within five years of your appointment.)

1. **Excellence (1 page)**

Please describe your achievements, motivation, and the feasibility of conducting research with significant academic and/or societal impact as an internationally outstanding researcher.

* 1. **Academic and/or societal impact of the research**

(Please explain the academic and/or societal impact of your independent research, incorporating past achievements and feasibility. Regarding feasibility, set objectives for publications such as papers and books over the five years following your appointment. Refer to your 'self-evaluation report on research performance' as needed to clarify relevant accomplishments and outcomes. Additionally, explain whether your research possesses the potential to generate significant impact, for example, by leading to widely cited publications (papers or books), major awards, large-scale external research funding; or alternatively, by contributing to solving societal challenges, advancing humanities and social sciences, or promoting industrial development.)

* 1. **International scope of research activities**

(Please describe your experience in international research activities, including your involvement in international collaborative research, overseas research stays, and the planning and organization of international conferences. Highlight the unique global network you have built through these activities. Additionally, explain how you plan to leverage this experience to lead international collaborative research in the future. Refer to your ‘CV’ and ‘list of research achievements’ as needed to clarify relevant accomplishments and activities.)