Dear Colleagues,

FRIB has established a bridge faculty program to enhance the opportunities for faculty hires at U.S. research universities with a focus on experimental research at FRIB or developments relevant for science at FRIB. The program is administered by Alexandra Gade (MSU) as the managing director and the board of D. Ayangeakaa (UNC), Carl Brune (Ohio University), Sean Liddick (MSU), Anna Simon (U Notre Dame), I. Wiedenhoever (FSU) as Chair and S. Yennello (Texas A&M). The program is modeled after the successful FRIB Theory Alliance bridge faculty initiative.

In the first round for the 2023-2024 year two faculty searches were approved at the physics departments of Mississippi State University and the University of Kentucky, both of which are nearing completion.

For the 2024-2025 year, we are again calling for proposals from academic institutions for bridge faculty searches. The complete proposals are to be submitted by October 1st to the Chair of the bridge position board, Ingo Wiedenhoever (iwiedenhoever@fsu.edu).

The program and proposal components are described in the attached document.

Thank you for your attention in this matter.
Ingo Wiedenhoever,
for the FRIB experimental bridge initiative.
FRIB Experimental Bridge Faculty Position, Framework, and Guidance for Applications

1 Objective
This document provides guidelines for those Universities planning to apply for an FRIB Experimental Bridge Faculty position with the FRIB Experimental Bridge Initiative. Special procedures will be in place if a host institution proposes a Bridge Faculty in accelerator physics.

2 Description of the Bridge Faculty Position
The motivation of the FRIB Experimental Bridge Faculty program (the Bridge program) is to enhance the opportunities for faculty hires at U.S. universities with a focus on experimental research at FRIB or developments relevant for science at FRIB. These positions will be loosely modeled after those created by the FRIB Theory Alliance, with 50% of the cost being covered by FRIB – salary, benefits and travel – administered through the FRIB Experimental Bridge Initiative and 50% by the home institution, over an initial period of up to 6 years or until the faculty member is granted tenure.

Bridge Faculty are outstanding junior experimentalists who hold the promise to pursue strong experimental research programs based at FRIB or developments for FRIB. Bridge Faculty are 100% employees of their home institution, with all the associated benefits. Bridge Faculty are expected to build a research group, attract federal funding, and have teaching and other duties, equivalent to the other faculty at their home institution. In addition, Bridge Faculty are expected to contribute significantly to the scientific program at FRIB and be spokespersons for FRIB science, nationally and internationally. They are expected to spend time at FRIB and, for this reason, teaching relief could be negotiated on a case-by-case basis.

3 Selection Process
The FRIB Experimental Bridge Initiative Board is responsible for identifying institutional partners for the Bridge program and making the selection of the institution that will be the potential home of a bridge position. If several institutions are selected, the board may attempt to stagger them in time as appropriate.

In selecting academic departments, typically physics or chemistry, to carry out the Bridge Faculty search, the main selection criterion will be that the science scope of the search is aligned with FRIB science. From the applications to host, the committee will select academic departments at doctoral universities with very high or high research activity [1] using additional criteria including the intellectual environment of the university, the diversity of its physics research program, the institutional record in mentoring junior faculty and the access to graduate students. The FRIB Experimental Bridge Initiative managing director will seek approval from the FRIB Laboratory director on the selection of the host institution by the Board.

4 Guidelines for Applications
Departments interested in competing for a bridge position will be asked to prepare a brief proposal. The proposal should contain:

i. A letter from the dean of the college, with the commitment of a 50% salary match in the event that the institution is selected, and a hire is made.
ii. A letter from the academic department chair, explaining how this new hire will fit into the long-term vision of the department and indicating the timescale for advertisement, interviews and hire, in the event that this institution is selected.

iii. A letter from the main point of contact, providing background information on the quality of the graduate program and the nuclear physics research program if one exists. Examples of recently graduated students in nuclear physics should be given, if applicable. Information on junior faculty hiring in the department over the last decade, as well as the support provided by the department to these junior faculty needs to also be documented.

iv. Supporting documents as described in the template attached to this document.

v. A one-page statement from the potential chair of the search committee describing how the hiring department (or group) will address issues of inclusive excellence both during the bridge search process and the workplace experience of the to-be-hired junior faculty.

5 Memorandum of Understanding

Once a partner is identified, the FRIB Experimental Bridge Initiative managing director works closely with the chair of the home academic department to develop the Memorandum of Understanding (MoU) that establishes the conditions of the appointment and the various contributions involved (in which FRIB, administered through the Experimental Bridge Initiative provides up to 50% of compensation – salary, benefits and travel). This document is developed before the search takes place.

The MoU does not commit funds, the commitment of funds will be through a financial assistance sub recipient agreement between Michigan State University and the home institution. As with all financial assistance agreements, expended effort fractions must be certified.

6 Recommendation

The home department is responsible for conducting the search process. The short list of interviewees should be communicated to the FRIB Experimental Bridge Initiative board through the search committee chair of the host institution. At the end of the search, the selected candidate needs to be approved by the FRIB Experimental Bridge Initiative Board. When and if this happens, the FRIB Experimental Bridge Initiative managing director informs the FRIB Laboratory director. The home department should inform the FRIB Experimental Bridge Initiative managing director as soon as the selected candidate accepts the position so that it can be promptly announced to the FRIB Experimental Bridge Initiative stakeholders.

7 Guidance on the Timeline for Bridge Position Process

A. The Chair of the FRIB Experimental Bridge Initiative board sends out a call for bridge partners in mid-July, with an October deadline for applications for the inaugural selection. In the following years, a call for bridge partners will be sent out in March, with an application deadline in September.

B. In October, the FRIB Experimental Bridge Initiative board studies the applications, rank orders them and provides a recommendation to the FRIB Laboratory director as to the selected host institution.

C. If accepted, the FRIB Experimental Bridge Initiative managing director develops the MoU with the selected home institution.

D. The home institution conducts the search in the spring: Advertisements are sent out in November or soon thereafter, candidates are interviewed in the spring, and a candidate is selected soon after that.
E. Information on the selected candidate is communicated to the FRIB Experimental Bridge Initiative Board, and the Board approves the candidate.
F. The home institution makes the offer to the selected candidate to start in the Fall.
G. Immediately after the candidate accepts, the outcome is communicated to FRIB Experimental Bridge Initiative managing director who informed the Board and the FRIB Laboratory director.

8 Framework
Administered by the FRIB Experimental Bridge Initiative, FRIB will fund FRIB Experimental Bridge Faculty positions in the field to seed faculty hires in FRIB-related experimentation. Participation is limited to U.S. institutions.

9 Roles – Responsibilities
9.1 FRIB Experimental Bridge Faculty
Bridge Faculty are outstanding junior experimentalists who hold the promise to develop strong experimental research programs at FRIB. The positions are funded 50% by FRIB and 50% by their home institution, over an initial period of up to 6 years or until the faculty member is granted tenure. Bridge Faculty are 100% employees of their home institution, with all the associated benefits. Bridge Faculty are expected to build a research group, attract federal funding, and have teaching and other duties, equivalent to the other faculty at their home institution. In addition, Bridge Faculty are expected to contribute significantly to the scientific program at FRIB and be spokespersons for FRIB science, nationally and internationally. This does not preclude the faculty member from having a complementary research program at the home institution or at other facilities for the fraction of effort not funded by FRIB.

9.2 FRIB Experimental Bridge Initiative Board
The Board represents FRIB User community and assures programmatic balance. It will have members of the research U.S. research universities with a program in low-energy nuclear physics. The Board identifies (canvassing) and selects from applications host institutions for FRIB Experimental Bridge Faculty positions, is informed about the interview short lists, and approves the selected candidate for the position. Host institutions may request a member of the board as observer or ex-officio search committee member. The Board members are expected to advertise the program and so help create a pool of host institutions for Bridge Faculty positions. The initial Board will be selected, and some members will be replaced by election through the FRIB Experimental Bridge Initiative stakeholders which will become an U.S.-based interest group within the FRIB User Community.

9.3 FRIB Experimental Bridge Initiative Managing Director
Administers the program on the FRIB side and works closely with the Board. The position is appointed by the FRIB Laboratory director.

10 References
[1] Carnegie Classification of Institutions of Higher Education®
Addendum for Accelerator Physics

Since the FRIB Experimental Bridge Initiative board will be composed of members of the University-based low-energy nuclear science community, expertise in accelerator physics will be limited. As it is critical to judge the relevance to FRIB of a proposed accelerator physics faculty position, a special board and managing director will be appointed by the FRIB Laboratory director to explore such a proposition and administer the search.
Supporting information for the FRIB Experimental Bridge Program Application

This document should contain all relevant data concerning the potential home institution for an FRIB Experimental Bridge position.

**Faculty hires in the Department**

Provide a table with the list of the Faculty members hired in the last decade by your Department, including the following information. The expressions of nuclear science and nuclear experiment are meant to be inclusive of nuclear physics and nuclear chemistry.

<table>
<thead>
<tr>
<th>Faculty</th>
<th>Yr Hired (departed)</th>
<th>Yr Tenure</th>
<th>Area of Research</th>
<th>Yrs Funded</th>
<th>Faculty Mentor</th>
<th>Number of Students Total (PhD)(MS)</th>
</tr>
</thead>
</table>

**Postdoctoral Researchers in Nuclear Experimentation**

Please provide a complete list of the postdoctoral researchers who have worked in nuclear experimentation during the last decade at your institution. Provide the name, duration of the postdoctoral contract as well as her/his current position/location. Please include their primary research area.

**Nuclear Science Long-Term Visitors**

Please provide a list of all long-term visitors working in nuclear science (experiment and theory), including sabbatical visits, during the past decade at your home institution. Please provide their names, year, duration of stay as well as their permanent affiliation.

**Current Students**

Please provide a list of current students working in nuclear science (including experimental nuclear science) at your institution. Include their names, the name of the advisor, the starting year, and the research topic.

**PhD Awarded in Nuclear Experiment**

Please provide a list with all the students that received a PhD from your institution during the last decade. Include name, year of PhD completion, Advisor and Current Position.

**Recent Start-up Packages**

Please describe the start-up packages offered to recent hires in your Department or describe the start-up package you expect to provide to the Bridge Faculty hire.