

**Jefferson Science Associates, LLC**  
Managing and Operating the Thomas Jefferson National Accelerator Facility  
for the U.S. Department of Energy

**FY2020 JSA Initiatives Fund Proposal Summary Sheet**

**Proposal title**

**Project Start Date** (month/year)

**Project End Date** (month/year)

New  
proposal

Renewal

**Total funds  
requested**

Total leveraged support / matching  
funds. Details of funds must be  
included in budget proposal.

**To be completed by JSA: Total funds awarded**

**Principal Investigator (PI)**

Institutional affiliation

Mailing address

Email / phone #

Co-PI (if more than 1, add  
pages with information)

Institutional affiliation

Mailing address

Email / phone #

**Check one category:** If PI is a Lab employee, your identification of the appropriate Associate Director below represents the acknowledgement of that AD with your submittal of proposal. No signature required.

Lab employee: Identify Associate Director (email /  
phone)

Lab user: Identify University affiliation (email / phone)  
Joint appointee: identify University and Lab division  
association (email / phone)

Other: Identify Institutional affiliation (email /  
phone)

**Proposal: Attach file with**

**(1) Executive summary and technical proposal**

**(2) Synopsis of scientific, educational, technical, and/or business merits, and alignment with and significance to Lab's current program**

**(3) Proposed evaluation plan to measure success.** If this is a request for renewal of funds, assessment of prior year performance,

Your proposal may include letters of endorsement and other supporting information (maximum of 12 pages including this summary sheet and budget sheet)

## Budget Proposal

Proposal Title

Principal Investigator (PI)

Total funds requested

To be completed by JSA: Total funds awarded

	Item Description	Amount
<b>Equipment.</b>	Lab users submitting proposals that include equipment to be used at the Lab must review with the appropriate Lab Associate Director. The provision of the name of the AD below represents the AD's acknowledgement. <b>No signature required.</b>	
	Associate Director: _____	
	_____	
	_____	
		Subtotal Equipment _____
<b>Travel Support.</b>	Provide break-out of estimates for registration fees, lodging and transportation, catering, and facility charges (room rentals, AV equipment; etc.)	
	_____	
	_____	
	_____	
	_____	
		Subtotal Travel _____
<b>Supplies</b>	_____	
	_____	
		Subtotal Supplies _____
<b>Consultants/Subcontracts</b>	_____	
	_____	
		Subtotal Consultants/Subcontracts _____
<b>Other Expenses.</b>	Examples include stipends and honoraria, prizes, awards.	
	_____	
	_____	
		Subtotal Other Expenses _____
		<b>Total Budget Proposal</b> _____

**Budget Justification:** Include narrative to explain need for each line item in the budget, showing breakdown of calculations used to arrive at the amount in each line of the budget. Note that the JSA Initiatives Fund Program does not support salaries and salary-related expenses, or indirect expenses.

**Leveraged Support/Matching Funds information.** Identify the source, type and amount of dollar funds from each institution. Include **separately** estimated value of in-kind support. Your identification of the authorized representative who has committed institutional support for your proposal represents the acknowledgement of that individual. If support or funds are provided by the Lab, identify the associate director (or equivalent) as the authorized representative. Information may be included on separate page.

## **Graduate Student Post-Doc Association Synopsis**

Below we include the synopsis's for each of two primary activities of the graduate student post-doc association (GSPDA).

### **Pizza Seminar Synopsis**

The Pizza Seminar Series contributes directly to the scientific and intellectual atmosphere of the laboratory and showcases current research being done. These seminars are very well attended by graduate students and postdocs. The seminars provide an opportunity for graduate students and postdocs to learn about research outside of their own projects. The seminars also provide an opportunity for both post docs and graduate students to present their own work in preparation for a thesis defense, conference talk, or an interview. In the summer months, undergraduate students also attend. A list of speakers and topics from previous years is attached.

The Annual Summer Picnic is geared toward the summer students at the lab. This event presents an opportunity for the students to engage in discussions with graduate students and postdocs along with their mentors. This presents an informal atmosphere for students to learn from graduate students and postdocs and to attract students to further their research careers in Jefferson Lab physics.

### **Journal Club Synopsis**

The main activities of the journal club consist of two meetings per month to discuss a scientific article, or review, whose topic is pertinent to the scientific program carried out at JLab. During the calendar year the club meetings will be divided into three blocks each of which are four months. At the beginning of each block, the advisors of the club, which would consist of two or three senior researchers of the lab, would propose a set of six to ten articles.

The inaugural block meeting will be primarily focused on assessing the relative interest of the selected articles and providing a general description of the clubs purpose as well as the desired format of the sessions. The three articles of primary interest will be selected as the articles which will be reviewed during the block. Three review groups will then be formed whose size will depend on the number of participants. After the groups have been formed, a schedule will be formulated such that there is one article assigned each month within the block.

The bi-monthly sessions of each block will be held consecutively for two weeks so as to maintain the continuity of the discussion, since both sessions will revolve around the same article. Each participating group will be responsible for preparing a two-part presentation that is primarily focused at generating discussion within the journal club setting.

# **Graduate Student Post-Doc Association Executive Summary**

Below we include the executive summaries for each of two primary activities of the graduate student post-doc association (GSPDA).

## **Pizza Seminar Executive Summary**

This request is to continue support for Jefferson Lab's monthly lunchtime pizza seminars that are geared towards graduate students and postdocs.

## **Journal Club Executive Summary**

Jefferson Lab is host to a significant number of undergraduate students, graduate students, and post-docs. Its research program in nuclear physics attracts the talent of both domestic and international young scientists. As such, it provides the required environment to learn skills that form the basic toolkit of research in fundamental science. In addition, it is desirable that other primary skills for their career development are nourished.

Regardless of whether their career path leads them to academia or the private sector, communication and presentation skills are some of the most valuable and transferable abilities a young scientist can acquire. We propose organizing a bi-monthly journal club open to the most junior members of the lab. Each session will focus on a single article, selected according to the interest of the club members. The available set of articles will be chosen by senior researchers in order to ensure scientific quality of the topics discussed and to maintain their relevance towards the scientific mission of JLab.

Much attention will be given to the advertising process before the inaugural session which is aimed to be held in late January 2020. A poster will be fabricated to advertise the club around the lab. This advertisement will also be disseminated electronically e.g. the JLab weekly newsletter, collaboration mailing lists, as well as the CUGA mailing list. As a second resource to advertise the journal club, we will provide a more detailed description on the graduate students and post docs association (GSPDA) wiki webpage. The list of articles for review will also be listed on the website well, in advance of the first meeting. In addition, the website will provide examples of the architecture of journal clubs at other institutions, as well as the presentations associated with their meetings.

## **Graduate Student Post-Doc Evaluation Plan**

Below we include the executive summaries for each of two primary activities of the graduate student post-doc association (GSPDA).

### **Pizza Seminar Proposal Evaluation Plan**

Evaluation is primarily done via attendance and verbal feedback from the students and post-docs. The pizza seminars regularly have attendance of 40-50 people. We plan for 50-60 students in the upcoming year in our budget estimate. The GSPDA meetings have an open invitation policy, and graduate students and post docs are encouraged to attend and contribute to the discussions on the effectiveness of the seminars and the selection of speakers and topics.

### **Journal Club Evaluation Plan**

In order to have a quantitative performance evaluation, we will have an assistance list every session. Independent of that, we will invite the advisors to join as often as time permits, but at least twice each block, to provide feedback, and have a form of qualitative and scientific evaluation. Finally, during each block we will have an open space online where members can provide feedback, and that would especially encouraged to be filled at least towards the end of each block.

## **Graduate Student Post-Doc Budget Justification**

Below we include the budget justification for each of two primary activities of the graduate student post-doc association (GSPDA).

### **Pizza Seminar Budget Justification**

A requested amount of \$4085 would fund 12 pizza seminars, the annual Summer Picnic, and travel support for invited speakers. Of the \$4085, \$300 is requested for the travel support to offset the costs of transportation from nearby Universities. An amount of \$700 is requested for the annual Summer Picnic. This event serves to provide high school, undergraduate, graduate students and postdocs an informal opportunity to network and discuss research and career opportunities in physics.

### **Journal Club Budget Justification**

The budget will be used to provide refreshments and snacks to the participants. Our estimation is to spend \$170 in the session where a new article is introduced where pizza will be provided. For the second session for a given article, we would expect to spend \$30 where a more frugal refreshment will be provided so that attendance will be encouraged primarily by the discussion of the topic presented in the first session. These numbers assume that we will have an attendance of 20-30 young scientists.