

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

FY2018 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
<p>Equipment. 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. No signature required.</p>			
	Associate Director: _____		
	_____	_____	
	_____	_____	
		Subtotal Equipment	
<p>Travel Support. Provide break-out of estimates for registration fees, lodging and transportation, catering, and facility charges (room rentals, AV equipment; etc.)</p>			
	_____	_____	
	_____	_____	
	_____	_____	
		Subtotal Travel	
<p>Supplies</p>			
	_____	_____	
	_____	_____	
		Subtotal Supplies	
<p>Consultants/Subcontracts</p>			
	_____	_____	
	_____	_____	
		Subtotal Consultants/Subcontracts	
<p>Other Expenses. Examples include stipends and honoraria, prizes, awards.</p>			
	_____	_____	
	_____	_____	
		Subtotal Other Expenses	
		Total Budget Proposal	

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.

Synopsis of scientific, educational, technical, and/or business merits, and alignment with and significance to the Lab's current program:

Jefferson Lab is the world leader in accelerator science through its operation of CEBAF by its Accelerator Division. This division is responsible for delivering high-quality electron beams for experiments. This group also pursues a broad program of theoretical and experimental research in accelerator and beam physics. The Outstanding Doctoral Thesis Research in Beam Physics Award recognizes outstanding research by doctoral students in this field, thus furthering research in beam physics and engineering. There are currently 94 Jefferson Lab employees who are APS members showing the importance of APS to those involved in the field. There are also over 1,000 members of the APS Division of Physics of Beams.

Many recipients of the award go on to develop a relationship with Jefferson Lab or the labs connected to the other two sponsors. The most recent year of funding by SURA in 2015 provided recognition to awardee Agostino Marinelli, University of California, Los Angeles. His thesis citation was: "In recognition of a definitive theoretical treatment of microscopic space-charge effects in particle beams, and accompanying innovative experimental tests involving the first use of coherent imaging in microbunched beams." The 2005 winner of this award was Eduard Pozdeyev who went on to work for Jefferson Lab at CASA group. The 1995 recipient was Dun Xiong Wang who was subsequently employed by CEBAF. These examples indicate that individuals receiving the award provide a direct benefit to Jefferson Lab and are significant to the lab's programs and goals.

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

SURA has funded the Outstanding Doctoral Thesis Research in Beam Physics Award for ten of the 27 years of its existence. Each year, the award recognizes and promotes the outstanding doctoral research by a student, which helps further research in the field of beam physics, a key element in Jefferson Lab's research. The lab has provided a total of \$30,000 in sponsorship funds over the past cycles of funding the award. The work of the nominees is evaluated by an elected highly-qualified selection committee from the APS Division of Physics and Beams. Nominees must pass their thesis defense not more than 18 months before the nomination deadline. An individual can only be nominated once, however, an unsuccessful candidate will be carried over for one year. Nominations of qualified women, members of underrepresented minority groups, and scientists from outside the United States are encouraged. The work of the recipients has a direct benefit to the interests of Jefferson Lab. The following link will take you to the APS web page for this award and provides a full listing of the recipients to date and their work in this field.

<http://www.aps.org/programs/honors/dissertation/beamphysics.cfm>