

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

Proposal title

Principal Investigator (PI)

Synopsis of scientific, educational, technical, and/or business merits, and alignment with and significance to Lab's current program. Add additional pages if necessary.

Proposed evaluation plan to measure success. If this is a request for renewal of funds, assessment of prior year performance. Add additional pages if necessary.

Your proposal may include letters of endorsement and other supporting information. A maximum of 10 additional pages may be appended to this proposal form.

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. The JSA Initiatives Fund Program does not support salaries and salary-related expenses, or indirect expenses. Describe other expenses below.</p> | | |
| | _____ | _____ |
| | _____ | _____ |
| | _____ | _____ |
| | Subtotal Other Expenses | _____ |
| | Total Budget Proposal | _____ |

Budget Justification and Leveraged Support/Matching Funds information. Identify the source, type and amount of support from each institution. For in-kind support, provide estimate of value. 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. Add additional pages if necessary.

SUPPORTING INFORMATION

THESIS PRIZE:

The thesis prize gives us the opportunity to recognize the contributions of our finest graduate students, and to help them launch their early careers. Indeed, some prize winners now have staff positions at national laboratories or faculty positions at universities, and recent prize winners are in postdoctoral positions. The thesis prize is a valuable program that deserves the continued support of the JSA Initiatives Fund. The User Group Board is thankful for the past support, and requests continued support for the finest graduate students. After several years of no increases, we propose to maintain the thesis prize at \$2500. The recipient is provided \$750 for travel to the annual Users Group meeting

The following table gives an indication of the success of our previous thesis prize winners. Note that among our past 12 winners, six have permanent positions and five of those are involved in physics related to Jefferson Lab (Cloet, Ron, Sokhan, Puckett, and Williams), joining several previous winners who are still actively involved at Jefferson Lab (including Ioana Niculescu, David Gaskell, Xiaochao Zheng, Karl Slifer, and Carlos Munoz Camacho).

| <i>Year</i> | <i>Recipient</i> | <i>Current status</i> |
|-------------|----------------------------|---|
| 2016 | Or Hen | Pappalardo Fellow, MIT |
| 2015 | Adesh Subedi | Postdoc at Indiana University |
| 2015 | Cristiano Fanelli | Postdoc at MIT |
| 2014 | Rakitha Beminiwattha | Postdoc at Syracuse University |
| 2013 | Katherine (Myers) Mesick * | Postdoc at Los Alamos |
| 2012 | <i>Biplab Dey</i> | Postdoc at INFN, Sezione di Milano |
| 2011 | Xin Qian | Associate Physicist, Brookhaven National Lab |
| 2010 | Andrew Puckett | Asst. Professor, U. of Connecticut |
| 2009 | Daria Sokhan | Lecturer in Nuclear Physics, U. Glasgow |
| 2008 | Guy Ron | Associate Prof., Hebrew University of Jerusalem |
| 2007 | Michael Williams | Asst. Professor, MIT |
| 2007 | Ian Cloet | Staff Scientist, Argonne National Lab |

* = Also awarded the 2014 APS Dissertation Award in Nuclear Physics

We had nine outstanding thesis prize submissions in both English and French, making the job of selecting the finalists (by UGBoD members) difficult and time-consuming. The winner was selected from the finalists by a special panel of senior scientists.

POSTER COMPETITION:

For the past few years, the fund has also supported the Student Poster Competition at the annual Users Meeting. This program exists to reward and recognize our current students, to encourage attendance at the User Group Meeting, to encourage the students to develop their communication abilities at outreach, and to make a positive impression on visitors to the annual meeting. It has been quite successful in fulfilling these goals; the impression of excitement we have conveyed to the funding agencies has been particularly beneficial, as we always schedule the poster competition during the reception on the first day of the annual meeting.

The 2016 competition was judged by three senior Jefferson Lab Users who, once again, found it very difficult to decide on the 3 best posters in a large group of outstanding submissions. The first prize went to Abha Rajan from UVa for her poster on “Spin and Orbital Angular Momentum Correlations in QCD”, the second prize went to Nicholas Compton from OhioU for his poster on “Differential

Cross Sections of K^0 -Lambda Photoproduction off the Deuteron”, and the third prize went to John Hardin from MIT for his poster on “A Focusing DIRC Detector for GlueX”.

We ask for first, second and third prize money of \$500, \$250 and \$100, which is approximately half of the award given in previous years. In addition, we provide \$500 in travel support to help the winners attend a meeting of their choice where they can present their work (as a poster, talk, or in informal discussions, depending on the nature of the meetings). This will help them gain additional exposure and get a better idea of the broader nuclear physics program. It will also help Jefferson Lab show off some of our best students who, without the financial support, may have difficulty in attending such meetings.