

Proposal Title

05 January 2017 to 05 September 2017

Fringe Eligible Personnel:

1. Research Assistant	
Monthly salary	\$2,980.00
Calendar months	6.0
Salary requested	\$17,880.00
Fringe benefits (7.9%)	\$1,412.52

Total Fringe Eligible Personnel **\$19,292.52**

Travel:

1. International (for 3 people)	\$9,900
---------------------------------	---------

Total Travel **\$9,900**

Other Costs:

1. Computing equipment	\$2,000
2. Lab equipment	\$15,000

Total Other Costs **\$17,000**

Total Project Costs **\$46,192.52**

Justification

Funds are requested to support a research assistant (RA) for 6 months. The RA will work closely with an already funded postdoc to perform data analysis on the NEXT experiment. They will also assemble the Radon trap setup and will try different configurations to get optimal results. The RA will dedicate 50% of the time to the data analysis and 50% to the hardware project. Funds to travel to the location of the experiment (Spain) to fulfill the required "data taking shifts" for the NEXT experiment for three people (RA, funded postdoc and Faculty) are requested. These trips will also be used to integrate the finalized Radon trap to the experiment. The cost of one 14-day trip is estimated to \$3,300 (flight: 1500\$ + accommodation 1000\$ + transportation: 400\$ + per diem: 400\$). Funds are also requested for the necessary computing resources (laptop (\$1,700) and monitor (\$300)) for the RA for the data analysis. Finally, while the Radon trap setup will heavily build on existing equipment, funds are necessary to purchase a high voltage power supply (\$6,000), PhotoMultiplier tube (\$3,000) and readout digitizer (\$6,000).