

WBS 6	Electronics & DAQ	start date	end date	M&S or Labor	M & S & E Cost	External Skilled Paid Labor	Employee / Student	BOE	Funding Source	Cost to Sponsor	Contingency	Reason for Contingency	Total
6.1	Order first half of electronics	1-Jun-2014	1-Dec-2014	Labor & Equipment	\$195,514			CAEN & GSI Quotes	NSF / DOE	\$195,514	\$27,000	EUR / USD exchange + loss of CAEN discount + possibly having to buy more expensive crates	\$222,514
6.2	Organisation of mounting / power / infrastructure issues at PSI	1-Mar-2014	1-Sep-2014	Labor					NSF / DOE	\$0			\$0
6.3	Work on DAQ drivers & readout to improve speed	1-Jul-2014	31-Jun-2016	Labor					NSF/DOE	\$0			\$0
6.4	Receive delivery of electronics at PSI, and verify functionality	1-Dec-2014	1-Mar-2015	Labor					NSF/DOE	\$0			\$0
6.5	Mounting of electronics in "final" positions	1-Feb-2015	1-Apr-2015	Labor					NSF/DOE	\$0			\$0
6.6	Planning, prototyping and ordering cable components	1-Apr-2015	1-Jun-2015	L & E	\$10,800		\$3,200	Estimates based on catalogue parts costs	NSF/DOE	\$14,000	\$2,000	Changing connector requirements / exchange rate estimates	\$16,000
6.7	Cable manufacture, testing & installation, mounting on table where appropriate	1-Jun-2015	1-Sep-2015	Labor					NSF/DOE	\$0			\$0
6.8	Installation of DAQ software & integration of complete DAQ to read out all components.	1-Aug-2015	1-Oct-2015	Labor					NSF/DOE	\$0			\$0
6.9	Update quotes and place orders for remaining electronics	1-Jun-2015	1-Aug-2015	Labor	\$118,914			CAEN & GSI Quotes	NSF/DOE	\$118,914	\$22,000	EUR / USD exchange + loss of CAEN discount + possibly having to buy more expensive crate	\$140,914
6.10	Update quotes & place order for RAID array	1-Jun-2015	1-Aug-2015	Labor	\$88,291			DELL Quote	NSF/DOE	\$88,291	\$9,000	10% fluctuation due to price change / increased storage need	\$97,291
6.11	Receive delivery of electronics & RAID Array at PSI, and verify functionality	1-Dec-2015	1-Mar-2016	Labor & Equipment					NSF/DOE	\$0			\$0
6.12	Install electronics in final position and complete cabling	1-Mar-2016	1-Apr-2016	Labor					NSF/DOE	\$0			\$0
6.13	Install software and complete integration of new DAQ components	1-Apr-2016	1-May-2016	Labor					NSF/DOE	\$0			\$0
6.14	Final testing & improvement of DAQ software	1-May-2016	1-Jul-2016	Labor					NSF/DOE	\$0			\$0