**MUSE Basis of Estimate**

**Element WBS #6**

I. General Information

Task Name: Labor for development of DAQ/electronics

Unique ID Number

Date of Estimate: 3/2014

Estimate Generator: Downie, Ransome

Cost Category:

 M&S

XSWF

Comments:

Vendor Quote Number if Applicable:

Drawing Reference Number or Attachment:

Costing Method: Estimate based on past experience with similar projects

Total Task Cost: $252,314

Total Contingency: $25,231

II. Cost Estimate Breakdown

Cost of each element, along with justification

Post-Doc 1 year @ $63,600, 26% fringe, 52% F&A

Total of $80,136 + F&A of $1,671 ($121,807) plus contingency of $12,181

Grad Students 2.25 years @36,000/year, 6% fringe, 52% F&A

Total of $85,860 + F&A $444,647 ($130,507) plus contingency of $13,050

III. Contingency and risk analysis

Salaries for grad students and post-docs are well known and not anticipated to change significantly, so we estimate a contingency of 10%.

The Post-doc and Grad Student labor is shared with WBS 5. The ability to shift between the two projects eliminates some risk to both.

