

Indiana University, Technology Service Corporation, Keith Solberg

And

Thomas Jefferson National Accelerator Facility (Jlab)

JLAB FDC Wire Plane Construction Phase 3

Indiana University Cyclotron Facility (IUCF) will place wires on wire frames provided by Jlab.

Technology Service Corporation will replace the TTL circuitry and rewrite the software using LabView

Keith Solberg will oversee all of the tasks and analyze wire position and tension

TASKS

1 Replace TTL circuitry with FPGA

2 Fix problem with rail system

3 test run in July of 2010

4 wind 28 wire frames

5 write report

	Resource Type	Hours	Rate	Total Cost
Task 1	Technology Service Corporation			\$15,707.02
	Keith Solberg	40	\$66.72	\$2,668.80
task 2	CSTIV	40	\$ 47.48	\$1,899.20
	machine shop	4	\$ 42.25	\$169.00
	materials			\$2,000.00
	Keith Solberg	8	\$66.72	\$533.76
task 3	CSTIV	40	\$ 47.48	\$1,899.20
	professional	16	\$ 66.72	\$1,067.52
	Keith Solberg	40	\$66.72	\$2,668.80
task 4	CSTIV	1260	\$ 47.48	\$59,824.80
	professional	84	\$ 66.72	\$5,604.48
	senior professional	22	\$ 113.15	\$2,489.30
	materials			\$1,000.00
	Keith Solberg	357	\$66.72	\$23,819.04
task 5	senior professional	8	\$ 113.15	\$905.20
	Keith Solberg	30	\$66.72	\$2,001.60
Direct costs for Indiana University				\$76,858.70
IU facilities & Administration (F&A) Rate 32.0%				0.32 \$24,594.78
Total Cost with IU F&A				\$101,453.48
IUCF Service Center Rates:				
	Machine shop		\$ 42.25	
	CST IV		\$ 47.48	
	Professional		\$ 66.72	
	Senior Management		\$ 113.15	
	IU Facilities & Administration Rate		\$ 0.32	
Total Cost Keith Solberg				\$31,692.00
Total Cost Technology Service Corporation				\$15,707.02
Total Cost for all contractors				\$148,852.50