

Title Continued operation of the HEAT telescope at Ridge A, Antarctica

Organization The University of Arizona

PI, Co-PI Craig A. Kulesa, Christopher K. Walker

Sponsor/Program NSF Astronomy & Astrophysics Research Grants (AAG), solicitation 12-589

Performance Period 10/1/2014 - 9/30/2016

	YEAR 1			YEAR 2			2 YEAR TOTALS
	Year 1 Rate	Labor Hrs.	TOTAL YEAR 1	Year 2 Rate	Labor Hrs.	TOTAL YEAR 2	
PERSONNEL							
Appointed Personnel							
Kulesa, Craig - PI	\$ 27.84	1,044	\$ 29,065	\$ 28.76	1,044	\$ 30,024	\$ 59,089
Walker, Christopher - Co-I	\$ 66.66	80	\$ 5,333	\$ 68.86	80	\$ 5,509	\$ 10,842
Abram Young	\$ 34.87	160	\$ 5,579	\$ 36.02	160	\$ 5,763	\$ 11,343
Appointed Personnel Subtotal		1,284	\$ 39,977		1,284	\$ 41,296	\$ 81,273
Undergraduate Student							
Undergrad (summer salary)	\$ 12.00	200	\$ 2,400	\$ 12.40	200	\$ 2,479	\$ 4,879
Undergraduate Student Subtotal		200	\$ 2,400		200	\$ 2,479	\$ 4,879
Graduate Students							
Graduate Research Assistant - AY (9-months)	\$ 22.61	400	\$ 9,044	\$ 23.36	400	\$ 9,343	\$ 18,387
Graduate Research Assistant - summer (3-yr)	\$ 26.05	232	\$ 6,043	\$ 26.91	232	\$ 6,242	\$ 12,285
Graduate Students Subtotal		632	\$ 15,087		632	\$ 15,585	\$ 30,672
Labor Subtotal		2,116	\$ 57,464		2,116	\$ 59,361	\$ 116,825
FRINGE BENEFITS - Rates effective 7/1/13 and beyond							
Faculty and Appointed Personnel @ 30.0%	\$ 39,977		\$ 11,993	\$ 41,296		\$ 12,389	\$ 24,382
Undergraduate Student @ 3.5%	\$ 2,400		\$ 84	\$ 2,479		\$ 87	\$ 171
Graduate Students @ 59.5% (50.0% IDC exempt)	\$ 15,087		\$ 8,977	\$ 15,585		\$ 9,273	\$ 18,250
Fringe Benefits Subtotal			\$ 21,054			\$ 21,749	\$ 42,803
Personnel Labor + ERE Totals			\$ 78,518			\$ 81,109	\$ 159,628
OTHER DIRECT COSTS							
OPERATIONS			\$ 11,960			\$ 6,570	\$ 18,530
Replacement disks for survey products			\$ 120			\$ 120	
Electronics repairs, materials and supplies (obj code 5290)			\$ 500			\$ -	
Communications (postage, phone/fax, copying/printing) (obj code 5560)			\$ 250			\$ 258	
Conference Registration (2/year)			\$ 450			\$ 465	
Publication costs charges (3 papers x 8 pages x \$110 per year)			\$ 2,640			\$ 2,727	
Receiver repairs and refurbishment			\$ 5,000			\$ -	
Shipping charges to/from Antarctica			\$ 3,000			\$ 3,000	
TRAVEL			\$ 3,800			\$ 3,925	\$ 7,725
<i>Antarctic deployment for 2 ppl/yr</i>							
		Domestic	Intern'l		Domestic	Intern'l	
Airfare (\$400)	\$ 800	\$ -		\$ 826	\$ -		
Lodging (\$100/night x 5 nights)	\$ 1,000	\$ 1,000		\$ 1,033	\$ 1,033		
Per diem (\$50/day x 5 days)	\$ 500	\$ 500		\$ 517	\$ 517		
Total per trip	\$ 2,300	\$ 1,500		\$ 2,376	\$ 1,550		
CAPITAL EQUIPMENT			\$ -			\$ -	\$ -
SUBCONTRACTS			\$ -			\$ -	\$ -
Total Other Direct Costs			\$ 15,760			\$ 10,496	\$ 26,256
TOTAL DIRECT COSTS			\$ 94,278			\$ 91,605	\$ 185,883
INDIRECT COSTS - 51.5%, effective 7/1/10							
MTDC BASE = Total Direct Costs (TDC) less capital equipment, less Tuition Remission (50.0% of Graduate Student fringe), and on first \$25K of EACH subcontract							
		MTDC Base	IDC		MTDC Base	IDC	
Base (on salaries, operations, travel)	\$ 86,735	\$ 44,668		\$ 83,812	\$ 43,163		
Base (on first \$25K of EACH subcontract)	\$ -	\$ -		\$ -	\$ -		
Total Indirect Costs		\$ 44,668		\$ 43,163		\$ 87,832	
TOTAL PROJECT COSTS			\$ 138,947			\$ 134,768	\$ 273,715