

IceCube Maintenance and operations Revised Proposal

Staffing Matrix by WBS

September 30, 2009

WBS Level 2		WBS Level 3		US / Non-US	Institution	Labor Cat.	Names	NSF M&O Core	U.S. Service Work			Non U.S. Service Work	Grand Total					
									U.S. Base Grants	U.S. Institutional Support	Total							
2.1	PROGRAM MANAGEMENT	2.1.1	Administration	US	GTECH	KE	Taboada, Ignacio			0.25	0.25		0.25					
					LBNL	KE	Klein, Spencer		0.40	0.40		0.40						
					PSU	KE	Cowen, Doug			0.20	0.20		0.20					
					UCB	KE	Price, Buford			0.10	0.10		0.10					
						SC	Woschnagg, Kurt	0.10			0.10		0.10					
					UD	KE	Gaisser, Tom			0.30	0.30		0.30					
					UMD	KE	Sullivan, Greg			0.20	0.20		0.20					
						PO	Olivas, Alex	0.10			0.10		0.10					
					UW	KE	Halzen, Francis	0.08		0.33	0.33		0.42					
							Karle, Albrecht	0.08		0.33	0.33		0.42					
							UW KE	0.75					0.75					
							Westerhoff, Stefan			0.10	0.10		0.10					
						SC	Hill, Gary	0.20			0.20		0.20					
						MA	Merck, Martin	1.00					1.00					
							UW MA	0.50					0.50					
							UW AD	0.50					0.50					
					US Total								2.92	0.40	2.72	3.12	6.03	
					Non-US					BUGH	KE	BUGH KE					0.05	0.05
										DESY	KE	DESY KE					0.20	0.20
										AD		DESY AD					0.10	0.10
										HUMB	AD	HUMB AD					0.40	0.40
										MPI	KE	MPI KE					0.50	0.50
										RWTH	KE	RWTH KE					0.10	0.10
										SU	KE	SU KE					0.60	0.60
										ULB	KE	ULB KE					0.20	0.20
					UM	KE	UM KE					0.15	0.15					
					UU	KE	UU KE					0.30	0.30					
					UBONN	KE	UBONN KE					0.10	0.10					
					AD		UBONN AD					0.10	0.10					
					UBOCHUM	KE	UBOCHUM KE					0.10	0.10					
Non-US Total												2.90	2.90					
2.1.1 Administration Total								2.92	0.40	2.72	3.12	2.90	8.93					
2.1	PROGRAM MANAGEMENT	2.1.2	Engineering and R&D Support	US	KU	KE	Besson, Dave			0.10	0.10		0.10					
					UMD	KE	Hoffman, Kara			0.20	0.20		0.20					
					UW	SC	Landsman, Yael Hagar	0.25					0.25					
						SE	Laundrie, Andrew	0.90					0.90					
							Sandstrom, Perry	0.50					0.50					
						EN	UW EN	0.10					0.10					
						TE	UW TE	0.25					0.25					
					US Total								2.00	0.30	0.30	2.30		
					Non-US					BUGH	KE	BUGH KE					0.05	0.05
										SC		BUGH SC					0.20	0.20
										GR		BUGH GR					0.10	0.10
										DESY	GR	DESY GR					0.10	0.10
										EPFL	KE	EPFL KE					0.10	0.10
										RWTH	SC	RWTH SC					0.10	0.10
										UGENT	SC	UGENT SC					0.05	0.05
											GR	UGENT GR					0.05	0.05
										ULB	KE	ULB KE					0.05	0.05
										UU	KE	UU KE					0.20	0.20
					Non-US Total												1.00	1.00
					2.1.2 Engineering and R&D Support Total								2.00	0.30	0.30	1.00	3.30	
					2.1	PROGRAM MANAGEMENT	2.1.3	USAP Support	US	UW	MA	UW MA	0.25					0.25
										US Total								0.25
					2.1.3 USAP Support Total								0.25				0.25	
					2.1	PROGRAM MANAGEMENT	2.1.4	Education & Outreach	US	OSU	PO	OSU PO		0.05		0.05		0.05
										PSU	KE	Cowen, Doug			0.05	0.05		0.05
		Deyoung, Tyce								0.05	0.05		0.05					
UMD	KE	UMD KE								0.10	0.10		0.10					
UW	AD	Malkus, Evelyn	1.00										1.00					
		UW AD	0.25										0.25					
UWRF	KE	Madsen, Jim								0.10	0.10		0.10					
	TE	UWRF TE									0.15	0.15		0.15				
US Total										1.25	0.20	0.30	0.50	1.75				
2.1.4 Education & Outreach Total										1.25	0.20	0.30	0.50	1.75				
2.1	PROGRAM MANAGEMENT	2.1.5	Distributed Computing & Labor	Non-US	DESY	TE	DESY TE					0.50	0.50					
					Non-US Total											0.50	0.50	
2.1.5 Distributed Computing & Labor Total								0.00				0.50	0.50					
PROGRAM MANAGEMENT Total								6.42	0.60	3.32	3.92	4.40	14.73					
2.2	DETECTOR MAINTENANCE & OPERATIONS	2.2	Detector Maintenance & operations	US	LBNL	KE	Nygren, David R			0.10	0.10		0.10					
					UW	MA	Laitsch, Denise	0.88				0.88						
					US Total								0.88	0.10	0.10	0.98		
					2.2 DETECTOR MAINTENANCE & OPERATIONS Total								0.88	0.10	0.10	0.98		
					2.2	DETECTOR MAINTENANCE & OPERATIONS	2.2.1	Run Coordination	US	LBNL	SC	Goldschmidt, Azriel	0.25					0.25
UW	SC	Krasberg, Mark	0.25									0.25						
	WO	UW WO	3.00									3.00						
US Total										3.50			3.50					
Non-US										Non-US	SC	Non-US SC					0.25	0.25
					UC	GR	UC GR					0.10	0.10					
Non-US Total												0.35	0.35					
2.2.1 Run Coordination Total								3.50				0.35	3.85					

**IceCube Maintenance and operations Revised Proposal
Staffing Matrix by WBS**

September 30, 2009

LEGEND		Cat.	Description	Cat.	Description	Cat.	Description	Cat.	Description	NSF M&O Core	U.S. Service Work			Non U.S. Service Work	Grand Total		
AD	Administration	GR	Graduate Student	PO	Postdoctoral Scientist	TE	Technician	CS	Computer Science Eng.		KE	Key Personnel/Faculty	SC			Scientist	WO
EN	Engineer	MA	Management	SE	Senior Engineer												
WBS Level 2	WBS Level 3	US / Non- US	Institution	Labor Cat.	Names												
2.2.10	SuperNova Operations	Non-US	UM	GR	UM GR									0.70	0.70		
		Non-US Total													0.70	0.70	
2.2.10 SuperNova Operations Total											0.00			0.70	0.70		
2.2.2	Data Acquisition	US	LBNL	EN	Stezelberger,Thorsten	0.15									0.15		
				PSU	PO	Toale, Patrick	0.15	0.00			0.00				0.15		
				UD	KE	UD KE				0.05		0.05				0.05	
				UW	SC	Krasberg, Mark	0.55										0.55
					SE	Wendt, Christopher	0.25										0.25
					SE	Glowacki, David	1.00										1.00
				CS	SE	Sandstrom, Perry	0.25										0.25
					SE	Jacobsen, John (Npx)	0.15										0.15
				GR	Weaver, Christopher				0.20			0.20					0.20
				US Total						2.50	0.20	0.05	0.25				2.75
Non-US	DESY	SC	DESY SC										0.30	0.30			
	ULB	KE	ULB KE										0.20	0.20			
Non-US Total													0.50	0.50			
2.2.2 Data Acquisition Total						2.50	0.20	0.05	0.25				0.50	3.25			
2.2.3	Online Filter (PnF)	US	UMD	SC	Blaufuss, Erik	0.20								0.20			
				GR	Schmidt, Torsten	0.25								0.25			
US Total						0.45	0.25		0.25				0.70				
2.2.3 Online Filter (PnF) Total						0.45	0.25		0.25				0.70				
2.2.4	SPS Operations	US	UW	SE	Sandstrom, Perry	0.25								0.25			
				CS	Soundarapandian, Karthik	0.75								0.75			
				EN	Wisniewski, Paul	0.25								0.25			
US Total						1.25							1.25				
2.2.4 SPS Operations Total						1.25							1.25				
2.2.5	SPTS Operations	US	UW	SE	Laundrie, Andrew	0.10								0.10			
				CS	Soundarapandian, Karthik	0.25								0.25			
				EN	UW EN	0.20								0.20			
US Total						0.55							0.55				
2.2.5 SPTS Operations Total						0.55							0.55				
2.2.6	Experiment Control	US	UW	CS	Jacobsen, John (Npx)	0.85								0.85			
				TE	UW TE	0.15								0.15			
				US Total						1.00						1.00	
				Non-US	BUGH	GR	BUGH GR									0.24	0.24
DESY	GR	DESY GR										0.10	0.10				
Non-US Total													0.34	0.34			
2.2.6 Experiment Control Total						1.00							0.34	1.34			
2.2.7	Detector Monitoring	US	CAU	KE	Japaridze, George			0.02		0.02				0.02			
				GTECH	GR	GTECH GR		0.03			0.03			0.03			
				KU	KE	Besson, Dave			0.02			0.02			0.02		
				LBNL	SC	Kiryuk, Joanna		0.20				0.20				0.20	
					PO	LBNL PO		0.09				0.09				0.09	
				OSU	PO	OSU PO		0.02				0.02				0.02	
					GR	Rott, Carsten		0.20				0.20				0.20	
				PSU	GR	Davis, James		0.01				0.01				0.01	
					PSU	PSU PO		0.03				0.03				0.03	
				GR	PSU GR		0.03				0.03				0.03		
				SUBR	SC	Ter-Antonyan, Samvel			0.02			0.02				0.02	
				UA	GR	Xu, Donglian		0.03				0.03				0.03	
				UAA	KE	Rawlins, Katherine			0.02			0.02				0.02	
				UCB	SC	Filimonov, Kirill		0.50				0.50				0.50	
					GR	UCB SC		0.02				0.02				0.02	
				GR	UCB GR		0.02				0.02				0.02		
				UCI	PO	Silverstri, Andrea		0.01				0.01				0.01	
					GR	Hanson, Jordan		0.01				0.01				0.01	
				UD	PO	Kuwabara, Takao		0.25				0.25				0.25	
					GR	UD GR		0.06				0.06				0.06	
				UMD	PO	UMD PO		0.03				0.03				0.03	
					GR	UMD GR		0.06				0.06				0.06	
				UW	PO	UW PO		0.12				0.12				0.12	
					GR	Baker, Michael		0.20				0.20				0.20	
				GR	UW GR		0.12				0.12				0.12		
				US Total						0.00	1.97	0.07	2.04				2.04
				Non-US	BUGH	KE	BUGH KE									0.30	0.30
					GR	BUGH GR										0.06	0.06
				CHIBA	GR	CHIBA GR									0.03	0.03	
				DESY	SC	DESY SC									0.26	0.26	
					GR	DESY GR									0.12	0.12	
				DTMND	GR	DTMD GR									0.03	0.03	
				EPFL	GR	EPFL GR									0.03	0.03	
				HUMB	SC	HUMB SC									0.03	0.03	
				MPI	GR	MPI GR									0.05	0.05	
				RWTH	GR	RWTH GR									0.09	0.09	
				SU	GR	SU GR									0.06	0.06	
				UC	GR	UC GR									0.02	0.02	
				UGENT	GR	UGENT GR									0.03	0.03	
				ULB	GR	ULB GR									0.03	0.03	
				UM	GR	UM GR									0.30	0.30	
				UMH	KE	UMH KE									0.03	0.03	
				UOX	SC	UOX SC									0.02	0.02	
UU	GR	UU GR									0.03	0.03					
VUB	GR	VUB GR									0.03	0.03					
UBONN	GR	UBONN GR									0.03	0.03					
UBOCHUM	PO	UBOCHUM PO									0.03	0.03					
Non-US Total													1.61	1.61			
2.2.7 Detector Monitoring Total						0.00	1.97	0.07	2.04				1.61	3.65			

IceCube Maintenance and operations Revised Proposal

Staffing Matrix by WBS

September 30, 2009

WBS Level 2		WBS Level 3		US / Non-US	Institution	Labor Cat.	Names	NSF M&O Core	U.S. Service Work			Non U.S. Service Work	Grand Total					
									U.S. Base Grants	U.S. Institutional Support	Total							
2.2.8		Detector Calibration		US	GTECH	GR	Tooker, Jonathan		0.40		0.40		0.40					
					LBNL	SC	Kiryuk, Joanna		0.10		0.10		0.10					
					UA	KE	Williams, Dawn			0.15		0.15		0.15				
						PO	Zarzhitzky, Pavel				0.20		0.20					
						GR	Xu, Donglian			0.25		0.25		0.25				
					UCB	SC	Woschnagg, Kurt			0.15		0.15		0.15				
						GR	Dagostino, Michelangelo			0.10		0.10		0.10				
					UW	SC	Wendt, Christopher		0.28	0.00		0.00		0.28				
						PO	Hoshina, Kotoyo			0.10		0.10		0.10				
						GR	Gladstone, Laura			0.15		0.15		0.15				
											Santander, Marcos		0.20		0.20		0.20	
					US Total								0.28	1.65	0.15	1.80	2.08	
					Non-US					DESY	GR	DESY GR					0.10	0.10
					Non-US Total												0.10	0.10
					2.2.8 Detector Calibration Total								0.28	1.65	0.15	1.80	0.10	2.18
2.2.9		IceTop Operations		US	UD	SC	UD SC	1.00					1.00					
					UWRF	KE	Spiczak, Glenn			0.03	0.03		0.03					
						SC	Tamburro, Alessio			0.03	0.03		0.03					
					US Total								1.00	0.05	0.05	1.05		
					IceTop Operations Total								1.00	0.05	0.05	0.00	1.05	
DETECTOR MAINTENANCE & OPERATIONS Total								11.40	4.07	0.42	4.49	3.60	19.49					
2.3 COMPUTING AND DATA MANAGEMENT		2.3 Computing And Data Management		US	UW	SE	UW SE	0.50					0.50					
					US Total								0.50			0.50		
		2.3 COMPUTING AND DATA MANAGEMENT Total								0.50			0.00	0.50				
		2.3.1		Core Software		US	UMD	SC	Blauffuss, Erik	0.50	0.15		0.15		0.15			
									Schmidt, Torsten									
									CS	UMD CS	0.25				0.25		0.25	
									GR	UMD GR		0.25		0.25		0.25		
									TE	Straszheim, Troy	0.88	0.50		0.50		0.88		
							UW	CS	Fadiran, Oladipo	0.50					0.50			
								TE	Diaz-Velez, Juan Carlos	1.00					1.00			
US Total								3.13	0.90	0.90	4.03							
Non-US							Non-US	PO	Non-US PO					0.38	0.38			
RWTH							SC	RWTH SC					0.10	0.10				
ULB					GR	RWTH GR					0.15	0.15						
ULB					TE	ULB TE					0.25	0.25						
Non-US Total											0.88	0.88						
2.3.1 Core Software Total								3.13	0.90	0.90	0.88	4.90						
2.3.2		Data Storage & Transfer		US	UW	CS	Fadiran, Oladipo	0.50					0.50					
						EN	Mackenzie, Cynthia	1.00				1.00						
						AD	Richards, John	1.00				1.00						
						TE	Mcguire, Paul	0.50				0.50						
							UW TE	0.50				0.50						
US Total								3.50			3.50							
2.3.2 Data Storage & Transfer Total								3.50				3.50						
2.3.3		Computing Resources		US	PSU	PO	PSU PO	0.25					0.25					
						SUBR	SC	Ter-Antonyan, Samvel			0.30	0.30		0.30				
						UMD	TE	UMD TE	0.25				0.25					
					UW	EN	Barnet, Steve	1.00				1.00						
							Bogen, David	1.00				1.00						
							Wisniewski, Paul	0.75				0.75						
						TE	Mcguire, Paul	0.50				0.50						
							UW TE	0.25				0.25						
					US Total								4.00	0.30	0.30	4.30		
					Non-US					DESY	SC	DESY SC					0.10	0.10
					GR	DESY GR					0.15	0.15						
					TE	DESY TE					1.10	1.10						
DTMND					KE	DTMD KE					0.25	0.25						
SU					SC	SU SC					0.50	0.50						
ULB					PO	ULB PO					0.30	0.30						
UMH					GR	UMH GR					0.30	0.30						
Non-US Total											2.70	2.70						
2.3.3 Computing Resources Total								4.00	0.30	0.30	2.70	7.00						
2.3.4		Data Production Processing		US	UW	PO	Toscano, Simona	0.50	0.35		0.35		0.35					
						TE	UW TE											
					US Total								0.50	0.35	0.35	0.85		
					Non-US					RWTH	GR	RWTH GR					0.25	0.25
					ULB					GR	ULB GR					0.20	0.20	
Non-US Total								0	0	0	0.45	0.45						
2.3.4 Data Production Processing Total								0	0.50	0.35	0.35	0.45	1.30					
2.3.5		Simulation Production		US	GTECH	PO	Tepe, Andreas		0.20		0.20		0.20					
						LBNL	SC	Kiryuk, Joanna		0.20		0.20		0.20				
						PSU	PO	Lafebre, Sven		0.17		0.17		0.17				
					UD	GR	Dunkman, Matt		0.17		0.17		0.17					
						PO	Hussain, Shahid		0.15		0.15		0.15					
						GR	Ruzybaev, Bakhtiyar		0.30		0.30		0.30					
					UMD	GR	Christy, Brian		0.25		0.25		0.25					
						SC	Desiati, Paolo	0.70				0.70						
					UW	GR	Eisch, Jonathan		0.30		0.30		0.30					
						TE	UW TE		0.60			0.60						
US Total								1.30	1.73	1.73	3.03							

IceCube Maintenance and operations Revised Proposal

Staffing Matrix by WBS

September 30, 2009

LEGEND		Cat.	Description	Cat.	Description	Cat.	Description	Cat.	Description	NSF M&O Core	U.S. Service Work			Non U.S. Service Work	Grand Total		
		AD	Administration	GR	Graduate Student	PO	Postdoctoral Scientist	TE	Technician		U.S. Base Grants	U.S. Institutional Support	Total				
		CS	Computer Science Eng.	KE	Key Personnel/Faculty	SC	Scientist	WO	Winterover								
		EN	Engineer	MA	Management	SE	Senior Engineer										
WBS Level 2	WBS Level 3	US / Non-US	Institution	Labor Cat.	Names												
		Non-US	BUGH	GR	BUGH GR									0.40	0.40		
			DESY	SC	DESY SC									0.15	0.15		
				GR	DESY GR										0.35	0.35	
			DTMND	GR	DTMD GR										0.40	0.40	
			RWTH	SC	RWTH SC										0.10	0.10	
				GR	RWTH GR										0.85	0.85	
			SU	GR	SU GR										0.20	0.20	
			ULB	TE	ULB TE										0.20	0.20	
			UM	GR	UM GR										0.45	0.45	
			VUB	SC	VUB SC										0.20	0.20	
					Non-US Total										3.30	3.30	
					2.3.5 Simulation Production Total				1.30	1.73	0.30	3.28	7.33	23.53			
		COMPUTING AND DATA MANAGEMENT Total				12.93	2.98	0.30	3.28	7.33	23.53						
2.4 TRIGGERING AND FILTERING	2.4.1 TFT Coordination	US	PSU	KE	Cowen, Doug				0.10	0.10				0.10	0.10		
			UD	KE	Seckel, David				0.10	0.10				0.10	0.10		
			UMD	SC	Blaufuss, Erik		0.30								0.30	0.30	
				GR	UMD GR				0.20						0.20	0.20	
			UW	KE	Montaruli, Teresa				0.10	0.10					0.10	0.10	
					US Total				0.30	0.20	0.30	0.50				0.80	0.80
			Non-US	ULB	KE	ULB KE										0.10	0.10
				UU	KE	UU KE										0.10	0.10
				UBONN	KE	UBONN KE										0.10	0.10
						Non-US Total										0.30	0.30
					2.4.1 TFT Coordination Total				0.30	0.20	0.30	0.50	0.30	1.10			
			2.4.2 Physics Filters	US	GTECH	KE	Taboada, Ignacio				0.25	0.25				0.25	0.25
LBNL	KE	Klein, Spencer					0.25	0.25				0.25	0.25				
OSU	PO	OSU PO					0.15	0.15				0.15	0.15				
	GR	Davis, James					0.15	0.15				0.15	0.15				
PSU	KE	Cowen, Doug					0.25	0.25				0.25	0.25				
	PO	Koskinen, Jason					0.18	0.18				0.18	0.18				
	GR	Adams, Laura					0.18	0.18				0.18	0.18				
UCB	SC	Woschnagg, Kurt					0.25	0.25				0.25	0.25				
UD	PO	Hussain, Shahid					0.15	0.15				0.15	0.15				
UMD	KE	Hoffman, Kara					0.25	0.25				0.25	0.25				
	PO	Olivas, Alex					0.25	0.25				0.25	0.25				
	SC	Maruyama, Reina					0.25	0.25				0.25	0.25				
UW	PO	Aguilar Sanchez Juan Antonio				0.15	0.15				0.15	0.15					
		Toscana, Simona				0.15	0.15				0.15	0.15					
	GR	Gladstone, Laura Whitehorn, Nathan				0.15	0.15	0.15	0.15		0.15	0.15					
		US Total				2.00	1.15	3.15	3.15			3.15	3.15				
Non-US	BUGH	GR	BUGH GR										0.20	0.20			
	CHIBA	KE	CHIBA KE										0.25	0.25			
		GR	CHIBA GR										0.15	0.15			
	DESY	GR	DESY GR										0.35	0.35			
	HUMB	SC	HUMB SC										0.55	0.55			
	RWTH	SC	RWTH SC										0.15	0.15			
		GR	RWTH GR										0.15	0.15			
	SU	KE	SU KE										0.25	0.25			
		SC	SU SC										0.30	0.30			
		GR	SU GR										0.25	0.25			
	ULB	GR	ULB GR										0.10	0.10			
	UU	KE	UU KE										0.25	0.25			
GR		UU GR										0.15	0.15				
VUB	KE	VUB KE										0.20	0.20				
UBONN	KE	UBONN KE										0.25	0.25				
	GR	UBONN GR										0.25	0.25				
		Non-US Total										3.80	3.80				
		2.4.2 Physics Filters Total				2.00	1.15	3.15	3.80	6.95							
		TRIGGERING AND FILTERING Total				0.30	2.20	1.45	3.65	4.10	8.05						
2.5 DATA QUALITY, RECONSTRUCTION & SIMULATION TOOLS	2.5 Data Quality, Reconstruction & Simulation Tools	US	LBNL	PO	Buitin, Stijn				0.10	0.10				0.10	0.10		
					US Total				0.00	0.10	0.10			0.10	0.10		
			Non-US	UC	SC	UC SC									0.50	0.50	
						Non-US Total									0.50	0.50	
			2.5 DATA QUALITY, RECONSTRUCTION & SIMULATION TOOLS Total				0.00	0.10	0.10	0.50	0.60						
	2.5.1 Simulation Programs	US	PSU	PO	Toale, Patrick				0.10	0.10				0.10	0.10		
			SUBR	KE	Fazely, Ali				0.15	0.15				0.15	0.15		
					Imlay, Richard				0.15	0.15				0.15	0.15		
			UA	PO	Zarzhitzky, Pavel				0.30	0.30				0.30	0.30		
			UAA	KE	Rawlins, Katherine				0.40	0.40				0.40	0.40		
			UCB	SC	Woschnagg, Kurt		0.50							0.50	0.50		
			UMD	PO	Olivas, Alex		0.20							0.20	0.20		
				Wissing, Henrike				0.25					0.25	0.25			
GR				Redl, Peter				0.25	0.25				0.25	0.25			
UW			SC	Hill, Gary		0.25							0.25	0.25			
			PO	Abbasi, Rasha				0.10					0.10	0.10			
				Aguilar Sanchez Juan Antonio				0.10					0.10	0.10			
	UW PO				0.40						0.40	0.40					
GR	Whitehorn, Nathan						0.10	0.10			0.10	0.10					
	Santander, Marcos						0.15	0.15			0.15	0.15					
		US Total				0.95	1.65	0.80	2.45	3.40							

IceCube Maintenance and operations Revised Proposal

Staffing Matrix by WBS

September 30, 2009

LEGEND		Cat.	Description	Cat.	Description	Cat.	Description	Cat.	Description	NSF M&O Core	U.S. Service Work			Non U.S. Service Work	Grand Total
		AD	Administration	GR	Graduate Student	PO	Postdoctoral Scientist	TE	Technician		U.S. Base Grants	U.S. Institutional Support	Total		
WBS Level 2		WBS Level 3		US / Non-US	Institution	Labor Cat.	Names								
				Non-US	Non-US	PO	Hoshina, Kotoyo						0.80	0.80	
							Non-US PO						0.20	0.20	
					SU	KE	SU KE						0.20	0.20	
					UGENT	SC	UGENT SC						0.10	0.10	
						GR	UGENT GR						0.40	0.40	
					UOX	KE	UOX KE						0.25	0.25	
						SC	UOX SC						0.25	0.25	
				Non-US Total									2.20	2.20	
		2.5.1 Simulation Programs Total								0.95	1.65	0.80	2.45	2.20	5.60
		2.5.2 Reconstruction/ Analysis tools		US	LBNL	KE	Klein, Spencer					0.25	0.25	0.25	0.25
					PSU	PO	Lafebre, Sven			0.19		0.19		0.19	0.19
						GR	Dunkman, Matt			0.13		0.13		0.13	0.13
							Adams, Laura			0.06		0.06		0.06	0.06
					SUBR	KE	Fazely, Ali				0.15	0.15		0.15	0.15
							Imlay, Richard				0.15	0.15		0.15	0.15
					UD	GR	Xu, Chen			0.30		0.30		0.30	0.30
					UMD	PO	Olivas, Alex			0.25		0.25		0.25	0.25
						GR	Redl, Peter			0.25		0.25		0.25	0.25
					UW	SC	Chirkin, Dmitry			0.50		0.50		0.50	0.50
						GR	Dumm, Jonathan			0.15		0.15		0.15	0.15
					UWRF	KE	Rodrgues, J.P				0.20	0.20		0.20	0.20
						SC	Abuzayyad, Tareq				0.25	0.25		0.25	0.25
							Tamburro, Alessio				0.25	0.25		0.25	0.25
				US Total							1.82	1.35	3.17	3.17	3.17
				Non-US	BUGH	GR	BUGH GR						0.50	0.50	
					CHIBA	KE	CHIBA KE						0.20	0.20	
						SC	CHIBA SC						0.20	0.20	
						GR	CHIBA GR						0.20	0.20	
					DESY	GR	DESY GR						0.30	0.30	
					EPFL	SC	EPFL SC						0.25	0.25	
					HUMB	SC	HUMB SC						0.50	0.50	
					RWTH	GR	RWTH GR						0.80	0.80	
					SU	SC	SU SC						0.15	0.15	
					UM	GR	UM GR						0.20	0.20	
					UBONN	PO	UBONN PO						0.20	0.20	
					UBOCHUM	PO	UBOCHUM PO						0.50	0.50	
				Non-US Total									4.00	4.00	
		2.5.2 Reconstruction/ Analysis tools Total									1.82	1.35	3.17	4.00	7.17
		2.5.3 Data Quality		US	OSU	PO	Rott, Carsten			0.40		0.40		0.40	0.40
					UA	KE	Williams, Dawn				0.15	0.15		0.15	0.15
				US Total							0.40	0.15	0.55	0.55	0.55
				Non-US	MPI	PO	MPI PO						0.60	0.60	
				Non-US Total									0.60	0.60	
		2.5.3 Data Quality Total									0.40	0.15	0.55	0.60	1.15
		2.5.4 Offline Data Processing		US	UW	SC	Hill, Gary		0.25					0.25	0.25
						GR	Dumm, Jonathan			0.15		0.15		0.15	0.15
				US Total						0.25	0.15	0.15	0.15	0.40	0.40
		Offline Data Processing Total								0.25	0.15	0.15	0.15	0.40	0.40
		DATA QUALITY, RECONSTRUCTION & SIMULATION TOOLS Total								1.20	4.12	2.30	6.42	7.30	14.92
Grand Total										32.24	13.97	7.79	21.76	26.72	80.72