

## IceCube M&amp;O MoU SOW Summary v10.0 2011.0422

## Authors Contribution

v 10.0 , April 22, 2011	Authors Head Count			M&O Responsibilities funded by NSF M&O & Inst. In-Kind (FTE)					Total
	Ph.D. scientists	Faculty Scientists / Post Docs	PhD. Students	WBS 2.1 Program Management	WBS 2.2 Detector Operations & Maintenance	WBS 2.3 Computing & Data Management	WBS 2.4 Triggering & Filtering	WBS 2.5 Data Quality, Reconstruction & Simulation Tools	
Institution (Lead)									
University of Alabama (Dawn Williams)	3	(2 1 2)		0.75	0.21			0.75	1.71
University of Alaska (Katherine Rawlins)	1	(1 0 0)			0.02			0.30	0.32
Clark Atlanta (George Japaridze)	1	(1 0 0)			0.02				0.02
Georgia Tech (Ignacio Taboada)	2	(1 1 1)		0.25	0.23	0.20	0.25		0.93
LBNL (Spencer Klein)	6	(3 3 1)		0.15	0.64	0.20	0.50	0.55	2.04
Ohio State University (Amy Connolly)	4	(2 2 0)		0.05	0.22		0.00	0.00	0.27
Pennsylvania State University (Doug Cowen)	5	(3 2 1)		0.30	0.06	0.42	0.93	0.45	2.15
Southern University (Ali Fazely)	4	(3 1 0)			0.02	0.30		0.60	0.92
University of California, Berkeley (Buford Price)	3	(1 2 1)		0.30	0.78		0.25	0.50	1.83
University of California, Irvine (Steve Barwick)	2	(1 1 1)			0.02				0.02
University of Delaware (Tom Gaisser)	8	(4 4 2)		0.20	1.30	0.15	0.45	0.90	3.00
University of Kansas (Dave Besson)	1	(1 0 0)		0.10	0.02				0.12
University of Maryland (Greg Sullivan)	7	(4 3 6)		1.00	0.54	1.00	1.25	1.15	4.94
University of Wisconsin, River Falls (Jim Madsen)	2	(2 0 0)		0.20	0.03			0.10	0.33
University of Wisconsin, Madison (Albrecht Karle)	20	(6 14 13)		1.38	2.37	1.80	0.95	2.85	9.35
<b>U.S. Institutions Subtotal</b>	<b>69</b>	<b>(35 34 28)</b>		<b>4.68</b>	<b>6.47</b>	<b>4.07</b>	<b>4.58</b>	<b>8.15</b>	<b>27.94</b>
DESY-Zeuthen (Christian Spiering)	8	(6 2 6)		0.30	0.83	2.75	0.20	0.30	4.38
RWTH Aachen (Christopher Wiebusch)	3	(1 2 7)		0.30	0.19	0.95	0.70	1.15	3.29
Universität Dortmund (Wolfgang Rhode)	1	(1 0 4)			0.03	0.65		0.20	0.88
Universität Mainz (Lutz Köpke)	2	(1 1 5)		0.20	0.65	0.35	0.20	0.30	1.70
Universität Wuppertal (Klaus Helbing)	3	(2 1 5)		0.40	0.60	0.40	0.20	0.50	2.10
Humboldt Universität Berlin (Hermann Kolanoski)	2	(2 0 0)		0.25	0.03		0.00	0.35	0.63
Universität Bochum (Julia Becker)	1	(1 0 1)		0.10	0.03			0.20	0.33
MPI Heidelberg (Elisa Resconi)	3	(1 2 3)		0.50	0.05			0.60	1.15
Universität Bonn (Marek Kowalski)	2	(1 1 3)		0.00	0.53		0.65	0.40	1.58
Universite Libre de Bruxelles (Daniel Bertrand)	4	(2 2 3)		0.30	0.23	0.50	0.20		1.23
Universite de Mons (Evelyne Daubie)	1	(0 1 0)			0.03	0.30			0.33
University of Gent (Dirk Ryckbosch)	3	(1 2 4)		0.10	0.03			0.50	0.63
Vrije Universiteit Brussel (Catherine de Clercq)	6	(2 4 0)			0.06	0.25	0.50	1.75	2.56
Stockholm University (Klas Hultqvist)	6	(5 1 2)		0.50	0.06	0.40	0.80	0.45	2.21
Uppsala University (Olga Botner)	4	(3 1 3)		0.70	0.23		0.60	0.05	1.58
University of Alberta (Darren, Grant)	1	(1 0 1)				0.30	0.10	0.10	0.50
University of the West Indies, Barbados (Suru Seunarine)	1	(1 0 0)					0.15	0.15	0.30
University of Oxford (Subir Sarkar)	1	(1 0 0)			0.02			0.10	0.12
University of Canterbury (Jenni Adams)	1	(1 0 3)			0.12			0.00	0.12
Chiba University (Shigeru Yoshida)	3	(1 2 1)			0.03		0.40	0.60	1.03
Ecole Polytechnique Federale de Lausanne (Mathieu Ribordy)	2	(1 1 1)		0.10	0.03			0.25	0.38
<b>Non-U.S. Institutions Subtotal</b>	<b>58</b>	<b>(35 23 52)</b>		<b>3.75</b>	<b>3.78</b>	<b>6.85</b>	<b>4.70</b>	<b>7.95</b>	<b>27.03</b>
<b>Total U.S. &amp; Non-U.S.</b>	<b>127</b>	<b>(70 57 80)</b>		<b>8.43</b>	<b>10.25</b>	<b>10.92</b>	<b>9.28</b>	<b>16.10</b>	<b>54.96</b>

Changes since last official version are colored red