

**IceCube M&O MoU SOW Summary v9.0 2010.0915**  
**M&O Core & In-Kind - Authors**

v 9.0 , September 15, 2010

Funding Agency	Institution (Lead)	Authors Head Count			M&O Responsibilities funded by NSF M&O Core & Inst. In-Kind (FTE)					
		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	Total
NSF	University of Alabama (Dawn Williams)	3	(2 1 2)		0.75	0.63			0.45	1.83
NSF	University of Alaska (Katherine Rawlins)	1	(1 0 0)			0.02			0.30	0.32
NSF	Clark Atlanta (George Japaridze)	1	(1 0 0)			0.02				0.02
NSF	Georgia Tech (Ignacio Taboada)	2	(1 1 1)		0.25	0.23	0.20	0.00		0.68
NSF	LBNL (Spencer Klein)	7	(3 4 1)		0.15	0.89	0.20	0.25	0.80	2.29
NSF	Ohio State University (James Beatty)	3	(1 2 1)		0.05	0.23		0.15	0.10	0.53
NSF	Pennsylvania State University (Doug Cowen)	5	(3 2 2)		0.30	0.06	0.42	0.68	0.33	1.78
NSF	Southern University (Ali Fazely)	4	(3 1 0)			0.02	0.30		0.60	0.92
NSF	University of California, Berkeley (Buford Price)	3	(1 2 1)		0.20	0.78		0.25	0.50	1.73
NSF	University of California, Irvine (Steve Barwick)	2	(1 1 1)			0.02				0.02
NSF	University of Delaware (Paul Evenson, acting for T. Gaisser)	8	(4 4 2)		0.30	1.30	0.15	0.10	1.15	3.00
NSF	University of Kansas (Dave Besson)	1	(1 0 0)		0.10	0.02				0.12
NSF	University of Maryland (Greg Sullivan)	7	(4 3 6)		0.70	0.54	1.00	1.00	1.40	4.64
NSF	University of Wisconsin, River Falls (Jim Madsen)	3	(2 1 0)		0.25	0.05			0.30	0.60
NSF	University of Wisconsin, Madison (Albrecht Karle)	18	(5 13 12)		1.38	2.22	1.45	0.95	2.35	8.35
	<b>U.S. Institutions Subtotal</b>	<b>68</b>	<b>(33 35 29)</b>		<b>4.43</b>	<b>7.02</b>	<b>3.72</b>	<b>3.38</b>	<b>8.28</b>	<b>26.82</b>
DESY	DESY-Zeuthen (Christian Spiering)	8	(6 2 6)		0.25	0.83	2.75	0.20	0.30	4.33
BMBF	RWTH Aachen (Christopher Wiebusch)	3	(1 2 11)		0.20	0.09	1.45	0.40	0.95	3.09
BMBF	Universität Dortmund (Wolfgang Rhode)	1	(1 0 4)			0.03	0.65		0.20	0.88
BMBF	Universität Mainz (Lutz Köpke)	1	(1 0 7)		0.15	1.00	0.45		0.20	1.80
BMBF	Universität Wuppertal (Klaus Helbing)	3	(2 1 7)		0.40	0.60	0.40	0.20	0.50	2.10
BMBF	Humboldt Universität Berlin (Hermann Kolanoski)	2	(1 1 0)		0.00	0.13		0.40	0.10	0.63
BMBF	Universität Bochum (Julia Becker)	1	(1 0 1)		0.10	0.03			0.25	0.38
DFG	MPI Heidelberg (Elisa Resconi)	2	(1 1 3)		0.50	0.05			0.60	1.15
DFG	Universität Bonn (Marek Kowalski)	2	(1 1 2)		0.10	0.53		0.55	0.40	1.58
FNRS	Universite Libre de Bruxelles (Daniel Bertrand)	4	(2 2 3)		0.30	0.23	0.50	0.20		1.23
FNRS	Universite de Mons (Evelyne Daubie)	0	(0 0 1)			0.03	0.30			0.33
FWO	University of Gent (Dirk Ryckbosch)	3	(1 2 4)		0.10	0.03			0.50	0.63
FWO	Vrije Universiteit Brussel (Catherine de Clercq)	6	(2 4 1)			0.06	0.25	0.50	1.75	2.56
SRC	Stockholm University (Per Olof Hulth)	6	(4 2 2)		0.60	0.06	0.70	0.80	0.55	2.71
SRC	Uppsala University (Olga Botner)	4	(3 1 3)		0.70	0.23		0.60	0.05	1.58
NSERC	University of Alberta (Darren, Grant)	2	(1 1 0)				0.10	0.00	0.40	0.50
	University of the West Indies, Barbados (Suruj Seunarine)	1	(1 0 0)					0.15	0.15	0.30
STFC	University of Oxford (Subir Sarkar)	1	(1 0 0)			0.02			0.10	0.12
MARSDEN	University of Canterbury (Jenni Adams)	2	(1 1 3)			0.12			0.50	0.62
JSPS	Chiba University (Shigeru Yoshida)	3	(1 2 3)			0.03		0.40	0.60	1.03
SNSF	Ecole Polytechnique Federale de Lausanne (Mathieu Ribordy)	2	(1 1 2)		0.10	0.03			0.25	0.38
	<b>Non-U.S. Institutions Subtotal</b>	<b>57</b>	<b>(33 24 63)</b>		<b>3.50</b>	<b>4.13</b>	<b>7.55</b>	<b>4.40</b>	<b>8.35</b>	<b>27.93</b>
	<b>Total U.S. &amp; Non-U.S.</b>	<b>125</b>	<b>(66 59 92)</b>		<b>7.93</b>	<b>11.14</b>	<b>11.27</b>	<b>7.78</b>	<b>16.63</b>	<b>54.74</b>

Changes since last official version of the MoU-SOW v 8.3 are colored red