

IceCube M&O MoU SOW Summary v29.0 2021.03
Authors Contribution

v 29.0 March 2021		Authors Head Count				IceCube Authors: M&O Responsibilities (FTE)					
Institution	Institutional Lead	Ph.D. Authors	Faculty Scientists / Post Docs	Ph.D. Students	WBS 2.1 Program Management	WBS 2.2 Detector Operations & Maintenance	WBS 2.3 Computing & Data Management	WBS 2.4 Data Processing & Simulation	WBS 2.5 Software	WBS 2.6 Calibration	Total
University of Alabama*	Dawn Williams	2	(2 0 3)		0.45	0.35	0.00	0.00	0.05	0.25	1.10
University of Alaska	Katherine Rawlins	1	(1 0 0)			0.25			0.20		0.45
Clark Atlanta	George Japaridze	1	(1 0 0)			0.02					0.02
Drexel University	Naoko Kurahashi Neilson	1	(1 0 4)		0.25	0.35	0.00	0.20	0.00	0.00	0.80
Georgia Tech	Ignacio Taboada	1	(1 0 3)		0.10	0.45			0.10		0.65
Harvard University	Carlos A. Argüelles	1	(1 0 1)		0.25	0.00	0.00	0.00	0.30	0.00	0.55
LBL*	Spencer Klein	2	(1 1 1)		0.05	0.24	1.08	0.00	0.10	0.00	1.47
Loyola University Chicago	Rasha Abbasi	1	(1 0 0)		0.10	0.05	0.00	0.00	0.00	0.00	0.15
Marquette University	Karen Andeen	2	(1 1 0)		0.20	1.15	0.00	0.00	0.00	0.00	1.35
Massachusetts Institute of Technology	Janet Conrad	2	(1 1 2)		0.10	0.00	0.00	0.10	0.50	0.10	0.80
Mercer University	Frank McNally	1	(1 0 0)		0.15	0.00	0.00	0.00	0.10	0.00	0.25
Michigan State University*	Tyce DeYoung	12	(6 6 9)		1.33	0.34	0.40	0.20	1.05	0.30	3.62
Ohio State University	James Beatty	2	(1 1 0)					0.05	0.25		0.30
Pennsylvania State University*	Doug Cowen	6	(2 4 3)		0.30	0.52	0.00	0.00	0.10	0.00	0.92
South Dakota School of Mines & Technology*	Xinhua Bai	1	(1 0 1)		0.73	0.07	0.00	0.20	1.00	0.00	2.00
Southern University	Ali Fazely	2	(1 1 0)			0.02	0.30		0.60		0.92
Stony Brook University	Joanna Kiryluk	1	(1 0 1)		0.15	0.10		0.10	0.10		0.45
University of California, Berkeley	Buford Price	1	(1 0 0)		0.10						0.10
University of California, Irvine	Steve Barwick	1	(1 0 1)			0.02					0.02
University of Delaware*	David Seckel	8	(5 3 5)		0.45	1.45		0.80	0.40	0.05	3.15
University of Kansas	Dave Besson	1	(1 0 2)							0.60	0.60
University of Maryland*	Greg Sullivan	6	(3 3 3)		1.15	1.26	0.00	0.15	0.80	0.00	3.36
University of Rochester	Segev BenZvi	1	(1 0 1)		0.25	0.30	0.00	0.00	0.10	0.00	0.65
University of Texas at Arlington	Benjamin Jones	1	(1 0 2)		0.20	0.00	0.00	0.00	0.35	0.85	1.40
University of Utah	Carsten Rott**	0	(0 0 0)		0.15	0.00	0.00	0.00	0.00	0.00	0.15
University of Wisconsin, River Falls*	Suruj Seunarine	2	(2 0 0)		0.00	0.00	0.00	0.00	0.10	0.20	0.30
University of Wisconsin, Madison	Albrecht Karle	27	(5 22 16)		2.23	3.45	0.00	2.10	2.55	1.75	12.08
Yale University	Reina Maruyama	1	(1 0 0)			0.05			0.05		0.10
U.S. Institutions Subtotal		88	(45 43 58)		8.69	10.43	1.78	3.90	8.80	4.10	37.70
DESY-Zeuthen	Marek Kowalski	9	(6 3 10)		0.95	0.82	1.35	0.00	0.20	0.00	3.32
Karlsruhe Institute of Technology	Andreas Haungs	11	(2 9 5)		0.20	2.10	0.15	0.35	0.45	0.00	3.25
RWTH Aachen	Christopher Wiebusch	1	(1 0 10)		0.50	0.62	0.10	0.50	0.70	0.20	2.62
Universität Dortmund	Wolfgang Rhode	2	(1 1 5)		0.00	0.73	0.00	0.30	0.80	0.00	1.83
Universität Mainz	Lutz Köpke	2	(1 1 8)		0.50	0.70	0.00	0.00	0.20	0.00	1.40
University of Münster	Alexander Kappes	2	(1 1 6)		0.50	0.00	0.00	0.00	0.00	0.00	0.50
Universität Wuppertal	Klaus Helbing	2	(1 1 5)			0.93			0.40	0.20	1.53
Humboldt Universität Berlin	Marek Kowalski	1	(1 0 1)							0.20	0.20
Universität Bochum	Julia Tjus	3	(2 1 1)		0.50	0.30	0.00	0.00	0.10	0.00	0.90
Technische Universität München	Elisa Resconi	4	(1 3 8)			0.05		1.00	1.10	0.20	2.35
Universite Libre de Bruxelles	J. A. Aguilar Sanchez	4	(3 1 2)		1.15	0.67	0.00	0.00	0.00	0.00	1.82
University of Gent	Dirk Ryckbosch	1	(1 0 2)		0.05	0.03	0.00	0.55	0.05	0.00	0.68
Vrije Universiteit Brussel	Nick van Eijndhoven	2	(2 0 3)		0.85	0.06	0.00	0.10	0.35	0.00	1.36
Stockholm University	Klas Hultqvist	3	(3 0 2)		0.40	0.11	0.00	0.00	0.40	0.20	1.11
Uppsala University	Olga Botner	5	(4 1 1)		0.40	0.58	0.00	0.00	0.00	0.15	1.13
University of Alberta	Juan Pablo Yáñez	3	(2 1 3)		0.00	0.10	0.50	0.35	0.10	0.85	1.90
University of Oxford	Subir Sarkar	1	(1 0 0)		0.10						0.10
University of Canterbury	Jenni Adams	2	(1 1 2)		0.20	0.15			0.15	0.15	0.65
University of Adelaide	Gary Hill	1	(1 0 1)						0.90		0.90
Chiba University	Shigeru Yoshida	6	(3 3 0)		0.25	0.15	0.00	0.20	0.90	0.00	1.50
Université de Genève	Teresa Montaruli	1	(1 0 2)		0.35	0.05	0.00	0.70	0.00	0.00	1.10
Universität Erlangen-Nürnberg	Uli Katz	2	(1 1 4)		0.20	0.00	0.00	0.00	0.90	0.00	1.10
Niels Bohr Institute	Jason Koskinen	4	(2 2 2)		0.25	0.55		0.85			1.65
Sungkyunkwan University	Carsten Rott	3	(1 2 4)		0.00	0.03	0.00	0.00	0.00	0.80	0.83
Queen's University	Ken Clark	1	(1 0 0)						0.10		0.10
Non-U.S. Institutions Subtotal		76	(44 32 87)		7.35	8.73	2.10	4.90	7.80	2.95	33.83
Total U.S. & Non-U.S.		164	(89 75 145)		16.04	19.16	3.88	8.80	16.60	7.05	71.53

Changes since last official version are colored red

* IceCube M&O Subaward Institutions

** Counted under SKKU