

IceCube M&O Staffing Matrix sort by WBS v13.0 2012.1001

| WBS L2 | WBS L3 | Institution | | Labor Names | | Tasks | | NSF M&O Core | NSF Base Grants | U.S. IN KIND | Non U.S. In-Kind | Grand Total | | |
|------------------------|-----------------------------------|---------------------|-----------------------|-----------------------|------------------|-------------------------------------|------------------------|--------------|-----------------|--------------|------------------|-------------|------|-------------|
| | | Cat. | Description | Cat. | Description | Cat. | Description | | | | | | Cat. | Description |
| | | AD | Administration | GR | Graduate Student | PO | Postdoctoral Scientist | | | | | | TE | Technician |
| CS | Computer Science Eng. | KE | Key Personnel/Faculty | SC | Scientist | WO | Winterover | | | | | | | |
| EN | Engineer | MA | Management | SE | Senior Engineer | | | | | | | | | |
| 2.1 Program Management | 2.1.1 Administration | LBNL | KE | KLEIN, SPENCER | | Supervise LBNL effort | 0.05 | | | | 0.05 | | | |
| 2.1 Program Management | 2.1.1 Administration | LBNL | KE | KLEIN, SPENCER | | Pubcom member | | | 0.10 | | 0.10 | | | |
| 2.1 Program Management | 2.1.1 Administration | UWRF | KE | MADSEN, JIM | | Speakers Comm Chair | | | 0.25 | | 0.25 | | | |
| 2.1 Program Management | 2.1.1 Administration | PSU | KE | COWEN, DOUG | | ExecCom member | | | 0.20 | | 0.20 | | | |
| 2.1 Program Management | 2.1.1 Administration | PSU | KE | COWEN, DOUG | | PINGU Co-Lead | | | 0.25 | | 0.25 | | | |
| 2.1 Program Management | 2.1.1 Administration | UCB | SC | FILIMONOV, KIRILL | | Pubcom member | | 0.10 | | | 0.10 | | | |
| 2.1 Program Management | 2.1.1 Administration | UCB | KE | PRICE, BUFORD | | Education & Outreach | | | 0.10 | | 0.10 | | | |
| 2.1 Program Management | 2.1.1 Administration | UCB | SC | WOSCHNAGG, KURT | | Speakers Comm member | | 0.10 | | | 0.10 | | | |
| 2.1 Program Management | 2.1.1 Administration | UD | KE | GAISSER, TOM | | ExecCom member | | | 0.20 | | 0.20 | | | |
| 2.1 Program Management | 2.1.1 Administration | UD | KE | STANEV, TODOR | | Pubcom member | | | 0.10 | | 0.10 | | | |
| 2.1 Program Management | 2.1.1 Administration | UMD | KE | SULLIVAN, GREG | | Spokesperson | 0.30 | | | | 0.30 | | | |
| 2.1 Program Management | 2.1.1 Administration | UMD | KE | SULLIVAN, GREG | | ExecCom member | | | 0.20 | | 0.20 | | | |
| 2.1 Program Management | 2.1.1 Administration | UMD | PO | WISSING, HENRIKE | | Pubcom member | | 0.10 | | | 0.10 | | | |
| 2.1 Program Management | 2.1.1 Administration | StonyBrook | KE | KIRYLK, JOANNA | | Simulation Prod. Comm member | | | 0.05 | | 0.05 | | | |
| 2.1 Program Management | 2.1.1 Administration | UW | KE | HALZEN, FRANCIS | | Principle Investigator | 0.35 | | | | 0.35 | | | |
| 2.1 Program Management | 2.1.1 Administration | UW | KE | HALZEN, FRANCIS | | Principle Investigator | | | 0.15 | | 0.15 | | | |
| 2.1 Program Management | 2.1.1 Administration | UW | KE | KARLE, ALBRECHT | | Associate Director for Science | 0.25 | | | | 0.25 | | | |
| 2.1 Program Management | 2.1.1 Administration | UW | KE | KARLE, ALBRECHT | | Coordination Committee chair | 0.10 | | | | 0.10 | | | |
| 2.1 Program Management | 2.1.1 Administration | UW | KE | KARLE, ALBRECHT | | ExecCom member | | | 0.20 | | 0.20 | | | |
| 2.1 Program Management | 2.1.1 Administration | UW | KE | YECK, JAMES | | Director of Operations | 0.50 | | | | 0.50 | | | |
| 2.1 Program Management | 2.1.1 Administration | UW | MA | UW Manager | | Computing Infrastructure Management | 1.00 | | | | 1.00 | | | |
| 2.1 Program Management | 2.1.1 Administration | UW | MA | PELES, ADI | | Resource Coordinator | 0.50 | | | | 0.50 | | | |
| 2.1 Program Management | 2.1.1 Administration | UW | AD | Vakhnina, Catherine | | Administrative Support | 0.50 | | | | 0.50 | | | |
| 2.1 Program Management | 2.1.1 Administration | US Total | | | | | 3.55 | 0.30 | 1.80 | | 5.65 | | | |
| 2.1 Program Management | 2.1.1 Administration | ALBERTA | KE | GRANT, DARREN | | Pubcom adjoint member | | | | 0.10 | 0.10 | | | |
| 2.1 Program Management | 2.1.1 Administration | DESY | KE | SPIERING, CHRISTIAN | | ExecCom member | | | | 0.20 | 0.20 | | | |
| 2.1 Program Management | 2.1.1 Administration | DESY | SC | ACKERMANN, MARKUS | | Analysis Coordinator | | | | 0.35 | 0.35 | | | |
| 2.1 Program Management | 2.1.1 Administration | DPNC | KE | MONRARULI, TERESA | | ICB Member | | | | 0.10 | 0.10 | | | |
| 2.1 Program Management | 2.1.1 Administration | HUMBOLDT | KE | KAPPES, ALEXANDER | | Pubcom member | | | | 0.10 | 0.10 | | | |
| 2.1 Program Management | 2.1.1 Administration | SU | KE | HULTH, PER OLOF | | ExecCom member | | | | 0.20 | 0.20 | | | |
| 2.1 Program Management | 2.1.1 Administration | SU | KE | HULTH, PER OLOF | | ICB Member | | | | 0.05 | 0.05 | | | |
| 2.1 Program Management | 2.1.1 Administration | SU | KE | HULTQVIST, KLAS | | ICB Member | | | | 0.05 | 0.05 | | | |
| 2.1 Program Management | 2.1.1 Administration | SU | KE | FINLEY, CHAD SU | | Coordination with LIGO | | | | 0.10 | 0.10 | | | |
| 2.1 Program Management | 2.1.1 Administration | SU | KE | WALCK, CHRISTIAN | | Publications Bookkeeping | | | | 0.10 | 0.10 | | | |
| 2.1 Program Management | 2.1.1 Administration | ULB | KE | HANSON, KAE | | ExecCom member | | | | 0.20 | 0.20 | | | |
| 2.1 Program Management | 2.1.1 Administration | UU | KE | BOTNER, OLGA | | Outreach | | | | 0.05 | 0.05 | | | |
| 2.1 Program Management | 2.1.1 Administration | UU | KE | BOTNER, OLGA | | Pubcom Chair | | | | 0.40 | 0.40 | | | |
| 2.1 Program Management | 2.1.1 Administration | UU | KE | HALLGREN, ALLAN | | Outreach | | | | 0.05 | 0.05 | | | |
| 2.1 Program Management | 2.1.1 Administration | UU | KE | HALLGREN, ALLAN | | Speakers Comm member | | | | 0.10 | 0.10 | | | |
| 2.1 Program Management | 2.1.1 Administration | VUB | KE | DE CLERCQ, CATHERINE | | ExecCom member | | | | 0.20 | 0.20 | | | |
| 2.1 Program Management | 2.1.1 Administration | WUPPERTAL | KE | HELBING, KLAUS | | Speakers Comm member | | | | 0.10 | 0.10 | | | |
| 2.1 Program Management | 2.1.1 Administration | RWTH | KE | WIEBUSCH, CHRISTOPHER | | ExecCom member | | | | 0.20 | 0.20 | | | |
| 2.1 Program Management | 2.1.1 Administration | MAINZ | KE | KOPKE, LUTZ | | Supernova group Co-Chair | | | | 0.25 | 0.25 | | | |
| 2.1 Program Management | 2.1.1 Administration | BOCHUM | KE | TJUS, JULIA | | Pubcom member | | | | 0.10 | 0.10 | | | |
| 2.1 Program Management | 2.1.1 Administration | Non-US Total | | | | | | | | 3.00 | 3.00 | | | |
| 2.1 Program Management | 2.1.1 Administration | US Total | | | | | 3.55 | 0.30 | 1.80 | 3.00 | 8.65 | | | |
| 2.1 Program Management | 2.1.2 Engineering And R&D Support | KU | KE | BESSON, DAVE | | EMI - Radio R&D | | | 0.10 | | 0.10 | | | |
| 2.1 Program Management | 2.1.2 Engineering And R&D Support | UMD | KE | HOFFMAN, KARA | | Detector R&D | | | 0.20 | | 0.20 | | | |
| 2.1 Program Management | 2.1.2 Engineering And R&D Support | UW | SC | DUVERNOIS, MICHAEL | | Science Support | 0.25 | | | | 0.25 | | | |
| 2.1 Program Management | 2.1.2 Engineering And R&D Support | UW | SC | DUVERNOIS, MICHAEL | | EMI, Instrumentation, I/F | 0.15 | | | | 0.15 | | | |
| 2.1 Program Management | 2.1.2 Engineering And R&D Support | UW | SE | LAUNDRIE, ANDREW | | EMI, Instrumentation, I/F | 0.10 | | | | 0.10 | | | |
| 2.1 Program Management | 2.1.2 Engineering And R&D Support | UW | SE | LAUNDRIE, ANDREW | | Engineering Support | 0.65 | | | | 0.65 | | | |
| 2.1 Program Management | 2.1.2 Engineering And R&D Support | UW | SE | SANDSTROM, PERRY | | EMI, Instrumentation, I/F | 0.25 | | | | 0.25 | | | |
| 2.1 Program Management | 2.1.2 Engineering And R&D Support | UW | SE | SANDSTROM, PERRY | | Engineering Support | 0.25 | | | | 0.25 | | | |
| 2.1 Program Management | 2.1.2 Engineering And R&D Support | UW | MA | HAUGEN, JAMES | | Engineering Support | 0.10 | | | | 0.10 | | | |
| 2.1 Program Management | 2.1.2 Engineering And R&D Support | US Total | | | | | 1.75 | 0.00 | 0.30 | | 2.05 | | | |
| 2.1 Program Management | 2.1.2 Engineering And R&D Support | DESY | KE | NAHNHAUER, ROLF | | Acoustic R&D Support | | | | 0.10 | 0.10 | | | |
| 2.1 Program Management | 2.1.2 Engineering And R&D Support | DESY | PO | KARG, TIMO | | Acoustic | | | | 0.10 | 0.10 | | | |
| 2.1 Program Management | 2.1.2 Engineering And R&D Support | ALBERTA | KE | GRANT, DARREN | | PINGU Co-Lead | | | | 0.10 | 0.10 | | | |
| 2.1 Program Management | 2.1.2 Engineering And R&D Support | RWTH | PO | LAIHEM, KARIM | | Acoustic R&D Support | | | | 0.10 | 0.10 | | | |
| 2.1 Program Management | 2.1.2 Engineering And R&D Support | RWTH | PO | LAIHEM, KARIM | | Acoustic monitoring | | | | 0.10 | 0.10 | | | |
| 2.1 Program Management | 2.1.2 Engineering And R&D Support | RWTH | GR | PAUL, LARRISA | | RASTA Antenna Construction | | | | 0.10 | 0.10 | | | |
| 2.1 Program Management | 2.1.2 Engineering And R&D Support | RWTH | GR | PAUL, LARRISA | | SPATS SD Maintenance | | | | 0.20 | 0.20 | | | |
| 2.1 Program Management | 2.1.2 Engineering And R&D Support | RWTH | GR | HEINEN, DIRK | | Acoustic R&D Support | | | | 0.10 | 0.10 | | | |
| 2.1 Program Management | 2.1.2 Engineering And R&D Support | ULB | KE | HANSON, KAE | | EMI/R&D | | | | 0.10 | 0.10 | | | |

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| WBS L2 | WBS L3 | Institution | | Labor | | Names | | Tasks | | NSF M&O Core | NSF Base Grants | U.S. IN-KIND | Non U.S. In-Kind | Grand Total | | |
|---------------------------------------|--|---------------------|-----------------------|-----------------------|--|-------|------------------------|-------|-------------|--------------|-----------------|--------------|------------------|-------------|------|-------|
| | | Cat. | Description | Cat. | Description | Cat. | Description | Cat. | Description | | | | | | | |
| | | AD | Administration | GR | Graduate Student | PO | Postdoctoral Scientist | TE | Technician | | | | | | | |
| CS | Computer Science Eng. | KE | Key Personnel/Faculty | SC | Scientist | WO | Winterover | | | | | | | | | |
| EN | Engineer | MA | Management | SE | Senior Engineer | | | | | | | | | | | |
| 2.1 Program Management | 2.1.2 Engineering And R&D Support | ULB | PO | O'MURCHADHA, AONGUS | EMI Measurements | | | | | | | 0.10 | 0.10 | | | |
| 2.1 Program Management | 2.1.2 Engineering And R&D Support | ULB | GR | MEURES, THOMAS | EMI Measurements | | | | | | | 0.25 | 0.25 | | | |
| 2.1 Program Management | 2.1.2 Engineering And R&D Support | WUPPERTAL | KE | HELBING, KLAUS | R&D Lead | | | | | | | 0.10 | 0.10 | | | |
| 2.1 Program Management | 2.1.2 Engineering And R&D Support | GENT | SC | UGENT SC | Acoustic R&D Support | | | | | | | 0.05 | 0.05 | | | |
| 2.1 Program Management | 2.1.2 Engineering And R&D Support | GENT | GR | UGENT GR | Acoustic R&D Support | | | | | | | 0.05 | 0.05 | | | |
| 2.1 Program Management | 2.1.2 Engineering And R&D Support | Non-US Total | | | | | | | | | | 1.55 | 1.55 | | | |
| 2.1 Program Management | 2.1.2 Engineering And R&D Support | | | | | | | | | | | 1.75 | 0.00 | 0.30 | 1.55 | 3.60 |
| 2.1 Program Management | 2.1.3 Usap Support | UW | MA | HAUGEN, JAMES | USAP Support | | | | | | | 0.25 | | 0.25 | | |
| 2.1 Program Management | 2.1.3 Usap Support | US Total | | | | | | | | | | 0.25 | | 0.25 | | |
| 2.1 Program Management | 2.1.3 Usap Support | | | | | | | | | | | 0.25 | | 0.25 | | |
| 2.1 Program Management | 2.1.4 Education & Outreach | OSU | PO | OSU PO | Outreach | | | | | | | 0.05 | | 0.05 | | |
| 2.1 Program Management | 2.1.4 Education & Outreach | PSU | KE | COWEN, DOUG | Education & Outreach | | | | | | | 0.05 | | 0.05 | | |
| 2.1 Program Management | 2.1.4 Education & Outreach | PSU | KE | DEYOUNG, TYCE | Education & Outreach | | | | | | | 0.05 | | 0.05 | | |
| 2.1 Program Management | 2.1.4 Education & Outreach | UMD | KE | UMD KE | E&O | | | | | | | 0.10 | | 0.10 | | |
| 2.1 Program Management | 2.1.4 Education & Outreach | UW | AD | Gianopoulos, Andrea | Education & Outreach Coordination | | | | | | | 0.75 | | 0.75 | | |
| 2.1 Program Management | 2.1.4 Education & Outreach | UWRF | KE | MADSEN, JIM | Teachers' program and UWRF Upward Bound | | | | | | | 0.10 | | 0.10 | | |
| 2.1 Program Management | 2.1.4 Education & Outreach | UWRF | TE | UWRF TE | Teachers Program | | | | | | | 0.10 | | 0.10 | | |
| 2.1 Program Management | 2.1.4 Education & Outreach | US Total | | | | | | | | | | 0.95 | 0.00 | 0.25 | 1.20 | |
| 2.1 Program Management | 2.1.4 Education & Outreach | | | | | | | | | | | 0.95 | 0.00 | 0.25 | 1.20 | |
| 2.1 Program Management | WBS L2 Total | | | | | | | | | | | 6.50 | 0.30 | 2.35 | 4.55 | 13.70 |
| 2.2 Detector Operations & Maintenance | 2.2.2 Detector Operations & Maintenance | LBNL | KE | NYGREN,DAVID R | Track Engine Trigger | | | | | | | 0.10 | | 0.10 | | |
| 2.2 Detector Operations & Maintenance | 2.2.2 Data Acquisition | UW | SC | KELLEY, JOHN | Deputy Maintenance and Operations Manager | | | | | | | 0.75 | | 0.75 | | |
| 2.2 Detector Operations & Maintenance | 2.2.2 Detector Operations & Maintenance | UW | MA | LAITSCH, DENISE | Detector Operations Manager | | | | | | | 1.00 | | 1.00 | | |
| 2.2 Detector Operations & Maintenance | 2.2.2 Detector Operations & Maintenance | US Total | | | | | | | | | | 1.75 | 0.00 | 0.10 | 1.85 | |
| 2.2 Detector Operations & Maintenance | 2.2.2 Detector Operations & Maintenance | UMH | GR | KOHENEN, GEORGES | Database Coordinator | | | | | | | 0.10 | | 0.10 | | |
| 2.2 Detector Operations & Maintenance | 2.2.2 Detector Operations & Maintenance | Non-US Total | | | | | | | | | | 0.10 | | 0.10 | | |
| 2.2 Detector Operations & Maintenance | 2.2.2 Detector Operations & Maintenance | | | | | | | | | | | 1.75 | 0.00 | 0.10 | 0.10 | 1.95 |
| 2.2 Detector Operations & Maintenance | 2.2.1 Run Coordination | UW | TE | Auer, Ralf | Winter Overs coordinator | | | | | | | 0.25 | | 0.25 | | |
| 2.2 Detector Operations & Maintenance | 2.2.1 Run Coordination | UW | TE | UW Winter Overs | Operate Detector (Winter-Overs) | | | | | | | 3.00 | | 3.00 | | |
| 2.2 Detector Operations & Maintenance | 2.2.1 Run Coordination | US Total | | | | | | | | | | 3.25 | 0.00 | 0.00 | 3.25 | |
| 2.2 Detector Operations & Maintenance | 2.2.1 Run Coordination | UC | GR | UC GR | Flasher Runs | | | | | | | 0.10 | | 0.10 | | |
| 2.2 Detector Operations & Maintenance | 2.2.1 Run Coordination | BONN | PO | BOSSER, SEBASTIAN | Run Coordinator | | | | | | | 0.50 | | 0.50 | | |
| 2.2 Detector Operations & Maintenance | 2.2.1 Run Coordination | Non-US Total | | | | | | | | | | 0.60 | | 0.60 | | |
| 2.2 Detector Operations & Maintenance | 2.2.1 Run Coordination | | | | | | | | | | | 3.25 | 0.00 | 0.00 | 0.60 | 3.85 |
| 2.2 Detector Operations & Maintenance | 2.2.2 Data Acquisition | LBNL | EN | STEZELBERGER,THORSTEN | Maintain DAQ Hardware (Hubs, DOR, Clocks, GPS,...) | | | | | | | 0.15 | | 0.15 | | |
| 2.2 Detector Operations & Maintenance | 2.2.2 Data Acquisition | UD | KE | SECKEL, DAVID | DAQ Monitoring | | | | | | | 0.05 | | 0.05 | | |
| 2.2 Detector Operations & Maintenance | 2.2.2 Data Acquisition | UW | SC | KELLEY, JOHN | DOM Cal Maintenance, DOM issues | | | | | | | 0.15 | | 0.15 | | |
| 2.2 Detector Operations & Maintenance | 2.2.2 Data Acquisition | UW | SC | WENDT, CHRISTOPHER | Flasher output, flasher calibration | | | | | | | 0.20 | | 0.20 | | |
| 2.2 Detector Operations & Maintenance | 2.2.2 Data Acquisition | UW | SC | WENDT, CHRISTOPHER | DOM charge response, linearity, DOM cal support | | | | | | | 0.20 | | 0.20 | | |
| 2.2 Detector Operations & Maintenance | 2.2.2 Data Acquisition | UW | CS | Frere, Michael | Maintain DAQ Software Systems (incl. triggers, DOM SW, etc. up to Event Builder) | | | | | | | 1.00 | | 1.00 | | |
| 2.2 Detector Operations & Maintenance | 2.2.2 Data Acquisition | UW | CS | GLOWACKI, DAVID | Maintain DAQ Software Systems (incl. triggers, DOM SW, etc. up to Event Builder) | | | | | | | 1.00 | | 1.00 | | |
| 2.2 Detector Operations & Maintenance | 2.2.2 Data Acquisition | UW | CS | Newcomb, Matthew | Maintain DAQ Software Systems (incl. triggers, DOM SW, etc. up to Event Builder) | | | | | | | 0.75 | | 0.75 | | |
| 2.2 Detector Operations & Maintenance | 2.2.2 Data Acquisition | UW | TE | BELLINGER, JIM | Maintain South Pole Test System Hardware and Operating Systems | | | | | | | 0.25 | | 0.25 | | |
| 2.2 Detector Operations & Maintenance | 2.2.2 Data Acquisition | UW | SE | SANDSTROM, PERRY | Maintain DAQ Hardware (Hubs, DOR, Clocks, GPS,...) | | | | | | | 0.25 | | 0.25 | | |
| 2.2 Detector Operations & Maintenance | 2.2.2 Data Acquisition | UW | CS | JACOBSEN, JOHN (NPX) | Maintain DAQ Hardware (Hubs, DOR, Clocks, GPS,...) | | | | | | | 0.15 | | 0.15 | | |
| 2.2 Detector Operations & Maintenance | 2.2.2 Data Acquisition | UW | GR | WEAVER, CHRISTOPHER | DOM CAL Maintenance | | | | | | | 0.20 | | 0.20 | | |
| 2.2 Detector Operations & Maintenance | 2.2.2 Data Acquisition | US Total | | | | | | | | | | 4.10 | 0.20 | 0.05 | 4.35 | |
| 2.2 Detector Operations & Maintenance | 2.2.2 Data Acquisition | ULB | KE | HANSON, KAELE | Data Acquisition | | | | | | | 0.20 | | 0.20 | | |
| 2.2 Detector Operations & Maintenance | 2.2.2 Data Acquisition | ULB | GR | HEEREMAN, DAVID | Develop Hit Spooling for Supernova & others | | | | | | | 0.50 | | 0.50 | | |
| 2.2 Detector Operations & Maintenance | 2.2.2 Data Acquisition | ULB | GR | PINAT, ELISA | Data Acquisition | | | | | | | 0.20 | | 0.20 | | |
| 2.2 Detector Operations & Maintenance | 2.2.2 Data Acquisition | Non-US Total | | | | | | | | | | 0.90 | | 0.90 | | |
| 2.2 Detector Operations & Maintenance | 2.2.2 Data Acquisition | | | | | | | | | | | 4.10 | 0.20 | 0.05 | 0.90 | 5.25 |
| 2.2 Detector Operations & Maintenance | 2.2.3 Online Filter (Pnf) | UMD | SC | BLAUFUSS, ERIK | Maintain PnF S/W and Online Filters | | | | | | | 0.20 | | 0.20 | | |
| 2.2 Detector Operations & Maintenance | 2.2.3 Online Filter (Pnf) | UMD | GR | REDL, PETER | Online Filter Testing | | | | | | | 0.25 | | 0.25 | | |
| 2.2 Detector Operations & Maintenance | 2.2.3 Online Filter (Pnf) | US Total | | | | | | | | | | 0.20 | 0.25 | 0.00 | 0.45 | |
| 2.2 Detector Operations & Maintenance | 2.2.3 Online Filter (Pnf) | | | | | | | | | | | 0.20 | 0.25 | 0.00 | 0.45 | |

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| WBS L2 | WBS L3 | Institution | | Labor | | Names | | Tasks | | NSF M&O Core | NSF Base Grants | U.S. IN-KIND | Non U.S. In-Kind | Grand Total |
|---------------------------|----------------------------------|---------------------|-----------------------|-----------------------|--|-------------|------------------------|-------------|-------------|--------------|-----------------|--------------|------------------|-------------|
| | | Cat. | Description | Cat. | Description | Cat. | Description | Cat. | Description | | | | | |
| | | AD | Administration | GR | Graduate Student | PO | Postdoctoral Scientist | TE | Technician | | | | | |
| | | CS | Computer Science Eng. | KE | Key Personnel/Faculty | SC | Scientist | WO | Winterover | | | | | |
| | | EN | Engineer | MA | Management | SE | Senior Engineer | | | | | | | |
| 2.2 Detector Operations & | 2.2.4 Sps Operations | UW | SE | SANDSTROM, PERRY | Maintain South Pole Computing H/W Infrastructure and operating systems | 0.25 | | | | 0.25 | | | | |
| 2.2 Detector Operations & | 2.2.4 Sps Operations | UW | TE | UW Technician | Maintain South Pole Computing H/W Infrastructure and operating systems | 0.75 | | | | 0.75 | | | | |
| 2.2 Detector Operations & | 2.2.4 Sps Operations | UW | TE | WISNIEWSKI, PAUL | Networking and Security Maintenance | 0.25 | | | | 0.25 | | | | |
| 2.2 Detector Operations & | 2.2.4 Sps Operations | US Total | | | | 1.25 | 0.00 | 0.00 | | 1.25 | | | | |
| 2.2 Detector Operations & | 2.2.4 Sps Operations | | | | | 1.25 | 0.00 | 0.00 | | 1.25 | | | | |
| 2.2 Detector Operations & | 2.2.5 Spts Operations | UW | SE | LAUNDRIE, ANDREW | Maintain South Pole Test System Hardware and Operating Systems | 0.10 | | | | 0.10 | | | | |
| 2.2 Detector Operations & | 2.2.5 Spts Operations | UW | TE | UW Technician | Maintain South Pole Test System Hardware and Operating Systems | 0.25 | | | | 0.25 | | | | |
| 2.2 Detector Operations & | 2.2.5 Spts Operations | US Total | | | | 0.35 | 0.00 | 0.00 | | 0.35 | | | | |
| 2.2 Detector Operations & | 2.2.5 Spts Operations | | | | | 0.35 | 0.00 | 0.00 | | 0.35 | | | | |
| 2.2 Detector Operations & | 2.2.6 Experiment Control | UW | CS | JACOBSEN, JOHN (NPX) | IceCube Live Maintenance and Upgrades | 0.65 | | | | 0.65 | | | | |
| 2.2 Detector Operations & | 2.2.6 Experiment Control | US Total | | | | 0.65 | 0.00 | 0.00 | | 0.65 | | | | |
| 2.2 Detector Operations & | 2.2.6 Experiment Control | | | | | 0.65 | 0.00 | 0.00 | | 0.65 | | | | |
| 2.2 Detector Operations & | 2.2.7 Detector Monitoring | CAU | KE | JAPARIDZE, GEORGE | Monitoring shifts | | | | 0.02 | | | 0.02 | | |
| 2.2 Detector Operations & | 2.2.7 Detector Monitoring | GTECH | GR | CASEY, JAMES | Monitoring shifts | | | | 0.03 | | | 0.03 | | |
| 2.2 Detector Operations & | 2.2.7 Detector Monitoring | KU | KE | BESSON, DAVE | Monitoring shifts | | | | 0.02 | | | 0.02 | | |
| 2.2 Detector Operations & | 2.2.7 Detector Monitoring | StonyBrook | KE | KIRYLK, JOANNA | BadDomList | | | | 0.10 | | | 0.10 | | |
| 2.2 Detector Operations & | 2.2.7 Detector Monitoring | StonyBrook | GR | NIEDERHAUSEN, HANS | Detector Monitoring | | | 0.05 | | | | 0.05 | | |
| 2.2 Detector Operations & | 2.2.7 Detector Monitoring | LBNL | PO | CHANG, HYON HA | Monitoring shifts | | | 0.09 | | | | 0.09 | | |
| 2.2 Detector Operations & | 2.2.7 Detector Monitoring | OSU | PO | OSU PO | Monitoring shifts | | | | 0.02 | | | 0.02 | | |
| 2.2 Detector Operations & | 2.2.7 Detector Monitoring | OSU | PO | ROTT, CARSTEN | Maintain good run list | | | | 0.10 | | | 0.10 | | |
| 2.2 Detector Operations & | 2.2.7 Detector Monitoring | OSU | PO | PFENDNER, CARL | Maintain good run list | | | | 0.10 | | | 0.10 | | |
| 2.2 Detector Operations & | 2.2.7 Detector Monitoring | PSU | PO | CLARK, KEN | Monitoring shifts | | | 0.03 | | | | 0.03 | | |
| 2.2 Detector Operations & | 2.2.7 Detector Monitoring | PSU | GR | DUNKMAN, MATT | Monitoring shifts | | | 0.03 | | | | 0.03 | | |
| 2.2 Detector Operations & | 2.2.7 Detector Monitoring | SUBR | KE | TER-ANTONYAN, SAMVEL | Detector Monitoring | | | | 0.02 | | | 0.02 | | |
| 2.2 Detector Operations & | 2.2.7 Detector Monitoring | UA | PO | UA PO | Monitoring shifts | | | | 0.03 | | | 0.03 | | |
| 2.2 Detector Operations & | 2.2.7 Detector Monitoring | UA | GR | XU, DONGLIAN | Monitoring shifts | | | | 0.03 | | | 0.03 | | |
| 2.2 Detector Operations & | 2.2.7 Detector Monitoring | UA | GR | PEPPER, JAMES | Monitoring shifts | | | | 0.03 | | | 0.03 | | |
| 2.2 Detector Operations & | 2.2.7 Detector Monitoring | UA | GR | LARSON, MICHAEL | Monitoring shifts | | | | 0.03 | | | 0.03 | | |
| 2.2 Detector Operations & | 2.2.7 Detector Monitoring | UAA | KE | RAWLINS, KATHERINE | Monitoring shifts | | | | 0.02 | | | 0.02 | | |
| 2.2 Detector Operations & | 2.2.7 Detector Monitoring | UCB | SC | FILIMONOV, KIRILL | Coordinate Monitoring | | | | 0.10 | | | 0.10 | | |
| 2.2 Detector Operations & | 2.2.7 Detector Monitoring | UCB | SC | FILIMONOV, KIRILL | Coordinate Monitoring | | | 0.25 | | | | 0.25 | | |
| 2.2 Detector Operations & | 2.2.7 Detector Monitoring | UCB | SC | UCB SC | Monitoring shifts | | | | 0.10 | | | 0.10 | | |
| 2.2 Detector Operations & | 2.2.7 Detector Monitoring | UCB | GR | UCB GR | Monitoring shifts | | | | 0.10 | | | 0.10 | | |
| 2.2 Detector Operations & | 2.2.7 Detector Monitoring | UCI | PO | SILVERSTRI, ANDREA | Monitoring shifts | | | | 0.01 | | | 0.01 | | |
| 2.2 Detector Operations & | 2.2.7 Detector Monitoring | UCI | GR | HANSON, JORDAN | Monitoring shifts | | | | 0.01 | | | 0.01 | | |
| 2.2 Detector Operations & | 2.2.7 Detector Monitoring | UD | PO | KUWABARA, TAKAO | Temp. & Pressure atmospheric monitoring | | | | 0.30 | | | 0.30 | | |
| 2.2 Detector Operations & | 2.2.7 Detector Monitoring | UMD | PO | UMD PO | Monitoring shifts | | | | 0.03 | | | 0.03 | | |
| 2.2 Detector Operations & | 2.2.7 Detector Monitoring | UMD | GR | UMD GR | Monitoring shifts | | | | 0.06 | | | 0.06 | | |
| 2.2 Detector Operations & | 2.2.7 Detector Monitoring | UW | PO | UW PO | Monitoring shifts | | | | 0.12 | | | 0.12 | | |
| 2.2 Detector Operations & | 2.2.7 Detector Monitoring | UW | GR | UW GR | Monitoring shifts | | | | 0.12 | | | 0.12 | | |
| 2.2 Detector Operations & | 2.2.7 Detector Monitoring | US Total | | | | 0.25 | 0.98 | 0.71 | | 1.94 | | | | |
| 2.2 Detector Operations & | 2.2.7 Detector Monitoring | CHIBA | GR | CHIBA GR | Detector Monitoring | | | | 0.03 | | | 0.03 | | |
| 2.2 Detector Operations & | 2.2.7 Detector Monitoring | DESY | SC | DESY SC | Detector Monitoring | | | | 0.05 | | | 0.05 | | |
| 2.2 Detector Operations & | 2.2.7 Detector Monitoring | DESY | GR | DESY GR | Detector Monitoring | | | | 0.12 | | | 0.12 | | |
| 2.2 Detector Operations & | 2.2.7 Detector Monitoring | DTMND | GR | DTMD GR | Detector Monitoring | | | | 0.03 | | | 0.03 | | |
| 2.2 Detector Operations & | 2.2.7 Detector Monitoring | EPFL | PO | BRUIJN, RONALD | Detector Monitoring | | | | 0.03 | | | 0.03 | | |
| 2.2 Detector Operations & | 2.2.7 Detector Monitoring | Munchen | GR | MPI GR | Detector Monitoring | | | | 0.05 | | | 0.05 | | |
| 2.2 Detector Operations & | 2.2.7 Detector Monitoring | RWTH | GR | PAUL, LARRISA | RASTA Data Monitoring | | | | 0.10 | | | 0.10 | | |
| 2.2 Detector Operations & | 2.2.7 Detector Monitoring | RWTH | GR | RWTH GR | Monitoring (4 weeks) | | | | 0.12 | | | 0.12 | | |
| 2.2 Detector Operations & | 2.2.7 Detector Monitoring | SU | GR | SU GR | Detector Monitoring | | | | 0.06 | | | 0.06 | | |
| 2.2 Detector Operations & | 2.2.7 Detector Monitoring | UC | GR | UC GR | Detector Monitoring | | | | 0.02 | | | 0.02 | | |
| 2.2 Detector Operations & | 2.2.7 Detector Monitoring | ULB | GR | ULB GR | Detector Monitoring | | | | 0.06 | | | 0.06 | | |
| 2.2 Detector Operations & | 2.2.7 Detector Monitoring | UOX | KE | SARKAR, SUBIR | Detector Monitoring | | | | 0.02 | | | 0.02 | | |
| 2.2 Detector Operations & | 2.2.7 Detector Monitoring | UU | GR | UU GR | Monitoring Shifts | | | | 0.03 | | | 0.03 | | |
| 2.2 Detector Operations & | 2.2.7 Detector Monitoring | VUB | PO | VUB PO | Monitoring shifts | | | | 0.06 | | | 0.06 | | |
| 2.2 Detector Operations & | 2.2.7 Detector Monitoring | VUB | GR | VUB GR | Monitoring shifts | | | | 0.06 | | | 0.06 | | |
| 2.2 Detector Operations & | 2.2.7 Detector Monitoring | WUPPERTAL | GR | WUPPERTAL GR | South Pole EMI Monitoring | | | | 0.15 | | | 0.15 | | |
| 2.2 Detector Operations & | 2.2.7 Detector Monitoring | WUPPERTAL | GR | WUPPERTAL GR | AURA, SPATS, surface antenna operations (RASTA) | | | | 0.45 | | | 0.45 | | |
| 2.2 Detector Operations & | 2.2.7 Detector Monitoring | MAINZ | GR | UM GR | Detector Monitoring | | | | 0.05 | | | 0.05 | | |
| 2.2 Detector Operations & | 2.2.7 Detector Monitoring | GENT | GR | UGENT GR | Detector Monitoring | | | | 0.03 | | | 0.03 | | |
| 2.2 Detector Operations & | 2.2.7 Detector Monitoring | DPNC | GR | ASEN, CHRISTOV | Detector Monitoring | | | | 0.20 | | | 0.20 | | |
| 2.2 Detector Operations & | 2.2.7 Detector Monitoring | DPNC | GR | RAAMEZ MOHAMED | Detector Monitoring | | | | 0.10 | | | 0.10 | | |
| 2.2 Detector Operations & | 2.2.7 Detector Monitoring | BONN | GR | UBONN GR | Detector Monitoring | | | | 0.03 | | | 0.03 | | |
| 2.2 Detector Operations & | 2.2.7 Detector Monitoring | BOCHUM | GR | SCHÖNEBERG, SEBASTIAN | Detector Monitoring | | | | 0.03 | | | 0.03 | | |
| 2.2 Detector Operations & | 2.2.7 Detector Monitoring | Non-US Total | | | | | | | 1.88 | | | 1.88 | | |
| 2.2 Detector Operations & | 2.2.7 Detector Monitoring | | | | | 0.25 | 0.98 | 0.71 | | 1.88 | | | 3.82 | |
| 2.2 Detector Operations & | 2.2.8 Detector Calibration | GTECH | GR | CASEY, JAMES | Bubble studies with flashers | | | | 0.20 | | | 0.20 | | |
| 2.2 Detector Operations & | 2.2.8 Detector Calibration | UA | KE | WILLIAMS, DAWN | managing flasher runs and other calibrations (stage 2 geometry) | | | | 0.20 | | | 0.20 | | |
| 2.2 Detector Operations & | 2.2.8 Detector Calibration | UA | GR | XU, DONGLIAN | Low-energy cascade calibration with flashers | | | | 0.10 | | | 0.10 | | |
| 2.2 Detector Operations & | 2.2.8 Detector Calibration | UA | GR | PEPPER, JAMES | Verification monitoring integration into IceCube Live | | | | 0.10 | | | 0.10 | | |
| 2.2 Detector Operations & | 2.2.8 Detector Calibration | UCB | SC | WOSCHNAGG, KURT | Calibration Lead | | | | 0.10 | | | 0.10 | | |
| 2.2 Detector Operations & | 2.2.8 Detector Calibration | UCB | GR | UCB GR | Calibration | | | | 0.10 | | | 0.10 | | |
| 2.2 Detector Operations & | 2.2.8 Detector Calibration | UW | SC | WENDT, CHRISTOPHER | Absolute DOM sensitivity | | | 0.40 | | | | 0.40 | | |
| 2.2 Detector Operations & | 2.2.8 Detector Calibration | UW | GR | FEINTZIG, JACOB | Ice Properties | | | | 0.15 | | | 0.15 | | |
| 2.2 Detector Operations & | 2.2.8 Detector Calibration | UW | GR | JERO, KYLE | DOM Linearity, sensitivity | | | | 0.15 | | | 0.15 | | |
| 2.2 Detector Operations & | 2.2.8 Detector Calibration | UW | GR | JERO, KYLE | Ice properties (anisotropy) Base Grants | | | | 0.25 | | | 0.25 | | |

IceCube M&O Staffing Matrix sort by WBS v13.0 2012.1001

| WBS L2 | WBS L3 | Institution | | Labor | | Names | | Tasks | | NSF M&O Core | NSF Base Grants | U.S. IN-KIND | Non U.S. In-Kind | Grand Total |
|--------------------------------|--|---------------------|-----------------------|-------------------------|------------------|---|------------------------|-------|-------------|--------------|-----------------|--------------|------------------|-------------|
| | | Cat. | Description | Cat. | Description | Cat. | Description | Cat. | Description | | | | | |
| | | AD | Administration | GR | Graduate Student | PO | Postdoctoral Scientist | TE | Technician | | | | | |
| CS | Computer Science Eng. | KE | Key Personnel/Faculty | SC | Scientist | WO | Winterover | | | | | | | |
| EN | Engineer | MA | Management | SE | Senior Engineer | | | | | | | | | |
| 2.2 Detector Operations & | 2.2.8 Detector Calibration | UW | GR | VAN SANTEN, JACOB | | Calibration of DOM waveforms | | | 0.10 | | | | 0.10 | |
| 2.2 Detector Operations & | 2.2.8 Detector Calibration | US Total | | | | | | 0.40 | 1.25 | 0.20 | | | 1.85 | |
| 2.2 Detector Operations & | 2.2.8 Detector Calibration | DESY | GR | ACHIM STOESSL | | Flasher Analysis | | | | | | 0.20 | 0.20 | |
| 2.2 Detector Operations & | 2.2.8 Detector Calibration | Non-US Total | | | | | | | | | | 0.20 | 0.20 | |
| 2.2 Detector Operations & | 2.2.8 Detector Calibration | US Total | | | | | | 0.40 | 1.25 | 0.20 | 0.20 | | 2.05 | |
| 2.2 Detector Operations & | 2.2.9 Ictop Operations | UD | SC | TILAV, SERAP | | Coordinate IceTop Operations | | 1.00 | | | | | 1.00 | |
| 2.2 Detector Operations & | 2.2.9 Ictop Operations | UWRF | KE | SPICZAK, GLENN | | IceTop tank Monitoring | | | | 0.03 | | | 0.03 | |
| 2.2 Detector Operations & | 2.2.9 Ictop Operations | US Total | | | | | | 1.00 | 0.00 | 0.03 | | | 1.03 | |
| 2.2 Detector Operations & | 2.2.9 Ictop Operations | US Total | | | | | | 1.00 | 0.00 | 0.03 | 0.00 | | 1.03 | |
| 2.2 Detector Operations & | 2.2.10 Supernova Operations | UW | KE | MARUYAMA, REINA | | Supernova DAQ and Simulation tools | | | | 0.15 | | | 0.15 | |
| 2.2 Detector Operations & | 2.2.10 Supernova Operations | UW | GR | RIEDEL, BENEDIKT | | Supernova DAQ | | | | 0.15 | | | 0.15 | |
| 2.2 Detector Operations & | 2.2.10 Supernova Operations | US Total | | | | | | 0.00 | 0.15 | 0.15 | 0.00 | | 0.30 | |
| 2.2 Detector Operations & | 2.2.10 Supernova Operations | MAINZ | GR | KROLL, GÖSTA | | SuperNova Operations | | | | | | 0.20 | 0.20 | |
| 2.2 Detector Operations & | 2.2.10 Supernova Operations | MAINZ | GR | EBERHARD, BENJAMIN | | SuperNova Operations | | | | | | 0.50 | 0.50 | |
| 2.2 Detector Operations & | 2.2.10 Supernova Operations | MAINZ | GR | BAUM, VOLKER | | SuperNova Operations | | | | | | 0.50 | 0.50 | |
| 2.2 Detector Operations & | 2.2.10 Supernova Operations | EPFL | KE | RIBORDY, MATHIEU | | Development of the multi-hit detection technique | | | | | | 0.20 | 0.20 | |
| 2.2 Detector Operations & | 2.2.10 Supernova Operations | EPFL | PO | BRUIJN, RONALD | | Development of the multi-hit detection technique | | | | | | 0.32 | 0.32 | |
| 2.2 Detector Operations & | 2.2.10 Supernova Operations | Non-US Total | | | | | | | | | | 1.72 | 1.72 | |
| 2.2 Detector Operations & | 2.2.10 Supernova Operations | US Total | | | | | | 0.00 | 0.15 | 0.15 | 1.72 | | 2.02 | |
| 2.2 Detector Operations | WBS L2 Total | | | | | | | 13.20 | 2.83 | 1.24 | 5.40 | | 22.66 | |
| 2.3 Computing And Data M | 2.3.1 Core Software | UMD | GR | HELLAUER, ROBERT | | Core Software | | | 0.25 | | | | 0.25 | |
| 2.3 Computing And Data M | 2.3.1 Core Software | UMD | GR | MEAGHER, KEVIN | | Core Software | | | 0.50 | | | | 0.50 | |
| 2.3 Computing And Data M | 2.3.1 Core Software | UW | TE | DIAZ-VELEZ, JUAN CARLOS | | Simulation Programs: diplopia | | 0.80 | | | | | 0.80 | |
| 2.3 Computing And Data M | 2.3.1 Core Software | UW | TE | FADIRAN, OLADIPO | | Maintain Data Processing Software | | 0.20 | | | | | 0.20 | |
| 2.3 Computing And Data M | 2.3.1 Core Software | UW | PO | WHITEHORN, NATHAN | | IceTray support, software maintenance | | | 0.20 | | | | 0.20 | |
| 2.3 Computing And Data M | 2.3.1 Core Software | UW | PO | NEILSON, NAOKO | | IceTray Support (Q frame) | | | 0.10 | | | | 0.10 | |
| 2.3 Computing And Data M | 2.3.1 Core Software | US Total | | | | | | 1.00 | 1.05 | 0.00 | | | 2.05 | |
| 2.3 Computing And Data M | 2.3.1 Core Software | UU | SC | BOERSMA, DAVID | | Maintain Reconstruction Framework | | | | | | 0.10 | 0.10 | |
| 2.3 Computing And Data M | 2.3.1 Core Software | Non-US Total | | | | | | | | | | 0.10 | 0.10 | |
| 2.3 Computing And Data M | 2.3.1 Core Software | US Total | | | | | | 1.00 | 1.05 | 0.00 | 0.10 | | 2.15 | |
| 2.3 Computing And Data M | 2.3.2 Data Storage & Transfer | UW | TE | FADIRAN, OLADIPO | | Transformation of Data for Long-Term Persistence and Archival. Maintain Data Warehouse Standards, Software (Ingest), Data Access (FTP), and Web Interface | | 0.20 | | | | | 0.20 | |
| 2.3 Computing And Data M | 2.3.2 Data Storage & Transfer | UW | TE | RICHARDS, JOHN | | Maintain and Operate Data Storage Infrastructure | | 1.00 | | | | | 1.00 | |
| 2.3 Computing And Data M | 2.3.2 Data Storage & Transfer | UW | TE | Auer, Ralf | | Maintain and Operate Data Storage Infrastructure | | 0.38 | | | | | 0.38 | |
| 2.3 Computing And Data M | 2.3.2 Data Storage & Transfer | UW | CS | MEADE, PATRICK | | Transfer Data from S. Pole to UW Data Warehouse and Archive at S. Pole. Maintain Data Transfer SW (SPADE). Maintain Data Warehouse Standards, Software (Ingest), Data Access (FTP), and Web Interface | | 0.50 | | | | | 0.50 | |
| 2.3 Computing And Data M | 2.3.2 Data Storage & Transfer | US Total | | | | | | 2.08 | 0.00 | 0.00 | | | 2.08 | |
| 2.3 Computing And Data M | 2.3.2 Data Storage & Transfer | DESY | GR | SCHÖNWALD, ARNE | | Data transfer UW-DESY | | | | | | 0.10 | 0.10 | |
| 2.3 Computing And Data M | 2.3.2 Data Storage & Transfer | Non-US Total | | | | | | | | | | 0.10 | 0.10 | |
| 2.3 Computing And Data M | 2.3.2 Data Storage & Transfer | US Total | | | | | | 2.08 | 0.00 | 0.00 | 0.10 | | 2.18 | |
| 2.3 Computing And Data M | 2.3.3 Computing Resources | PSU | PO | CLARK, KEN | | Coordination and Support for Grid and distributed computing | | 0.25 | | | | | 0.25 | |
| 2.3 Computing And Data M | 2.3.3 Computing Resources | SUBR | KE | TER-ANTONYAN, SAMVEL | | LONI Grid computing | | | | 0.30 | | | 0.30 | |
| 2.3 Computing And Data M | 2.3.3 Computing Resources | UW | TE | SKARLUPKA, HEATH | | Maintain Core High Performance Computing Systems Coordination and Support for Grid and distributed computing | | 1.00 | | | | | 1.00 | |
| 2.3 Computing And Data M | 2.3.3 Computing Resources | UW | TE | Barnet, Steve | | Maintain Core Computing Systems, Coordination Grid & distributed computing | | 1.00 | | | | | 1.00 | |
| 2.3 Computing And Data M | 2.3.3 Computing Resources | UW | TE | BELLINGER, JIM | | Maintain Core High Performance Computing Systems | | 0.50 | | | | | 0.50 | |
| 2.3 Computing And Data M | 2.3.3 Computing Resources | UW | TE | WISNIEWSKI, PAUL | | Maintain Data Center Networking and Security | | 0.75 | | | | | 0.75 | |
| 2.3 Computing And Data M | 2.3.3 Computing Resources | UW | TE | Auer, Ralf | | Maintain Data Center Infrastructure | | 0.38 | | | | | 0.38 | |
| 2.3 Computing And Data M | 2.3.3 Computing Resources | US Total | | | | | | 3.88 | 0.00 | 0.30 | | | 4.18 | |
| 2.3 Computing And Data M | 2.3.3 Computing Resources | DESY | TE | DESY TE | | European Data Center - Distributed Computing and Labor | | | | | | 2.00 | 2.00 | |
| 2.3 Computing And Data M | 2.3.3 Computing Resources | DESY | GR | JACOBI, EMANUEL | | Reconstruction Release Manager , Maintain Reconstruction Framework | | | | | | 0.20 | 0.20 | |
| 2.3 Computing And Data M | 2.3.3 Computing Resources | UU | GR | TAAVOLA, HENRIC | | Computing resources | | | | | | 0.20 | 0.20 | |
| 2.3 Computing And Data M | 2.3.3 Computing Resources | DTMND | SC | PIELOTH, DAMIAN | | Coordinate GRID computing in Germany | | | | | | 0.25 | 0.25 | |
| 2.3 Computing And Data M | 2.3.3 Computing Resources | SU | SC | SU SC | | Computing Resources | | | | | | 0.40 | 0.40 | |
| 2.3 Computing And Data M | 2.3.3 Computing Resources | UMH | GR | KOHNNEN, GEORGES | | IC database management | | | | | | 0.30 | 0.30 | |
| 2.3 Computing And Data M | 2.3.3 Computing Resources | Non-US Total | | | | | | | | | | 3.35 | 3.35 | |
| 2.3 Computing And Data M | 2.3.3 Computing Resources | US Total | | | | | | 3.88 | 0.00 | 0.30 | 3.35 | | 7.53 | |
| 2.3 Computing And Data M | 2.3.4 Data Production Processing | UW | GR | SANTANDER, MARCOS | | Moon Shadow online | | | 0.15 | | | | 0.15 | |
| 2.3 Computing And Data M | 2.3.4 Data Production Processing | UW | CS | MEADE, PATRICK | | Unpacking, Decoding & Calibration of Raw Data (Level1); Run Common Reconstructions on UW IceCube Compute Cluster (Level2) | | 0.50 | | | | | 0.50 | |

IceCube M&O Staffing Matrix sort by WBS v13.0 2012.1001

| WBS L2 | WBS L3 | Institution | | Labor | | Names | | Tasks | | NSF M&O Core | NSF Base Grants | U.S. IN-KIND | Non U.S. In-Kind | Grand Total |
|------------------------------|---|---------------------|-----------------------|----------------------|--|-------|------------------------|-------|-------------|--------------|-----------------|--------------|------------------|--------------|
| | | Cat. | Description | Cat. | Description | Cat. | Description | Cat. | Description | | | | | |
| | | AD | Administration | GR | Graduate Student | PO | Postdoctoral Scientist | TE | Technician | | | | | |
| CS | Computer Science Eng. | KE | Key Personnel/Faculty | SC | Scientist | WO | Winterover | | | | | | | |
| EN | Engineer | MA | Management | SE | Senior Engineer | | | | | | | | | |
| 2.3 Computing And Data M | 2.3.4 Data Production Processing | US Total | | | | | | | | 0.50 | 0.15 | 0.00 | | 0.65 |
| 2.3 Computing And Data M | 2.3.4 Data Production Processing | Non-US Total | | | | | | | | | | | 0.00 | 0.00 |
| 2.3 Computing And Data M | 2.3.4 Data Production Processing | | | | | | | | | 0.50 | 0.15 | 0.00 | 0.00 | 0.65 |
| 2.3 Computing And Data M | 2.3.5 Simulation Production | LBNL | PO | GERHARDT,LISA | Simulation Production on PDSF | | | | 0.20 | | | | 0.20 | |
| 2.3 Computing And Data M | 2.3.5 Simulation Production | PSU | PO | KOSKINEN, JASON | Simulation Production | | | | 0.08 | | | | 0.08 | |
| 2.3 Computing And Data M | 2.3.5 Simulation Production | PSU | PO | CLARK, KEN | Simulation Production | | | | 0.08 | | | | 0.08 | |
| 2.3 Computing And Data M | 2.3.5 Simulation Production | UD | PO | TAMBURRO, ALESSIO | IceTop Simulation Production | | | | 0.35 | | | | 0.35 | |
| 2.3 Computing And Data M | 2.3.5 Simulation Production | UD | PO | HUSSAIN, SHAHID | IceTop Simulation Production | | | | | 0.15 | | | 0.15 | |
| 2.3 Computing And Data M | 2.3.5 Simulation Production | UMD | GR | CHRISTY, BRIAN | Simulation Production coordination | | | | 0.25 | | | | 0.25 | |
| 2.3 Computing And Data M | 2.3.5 Simulation Production | UW | SC | DESIATI, PAOLO | Coordination of Simulation Production | | | | 0.20 | | | | 0.20 | |
| 2.3 Computing And Data M | 2.3.5 Simulation Production | UW | SC | DESIATI, PAOLO | Simulation Production panel chair | | | | 0.20 | | | | 0.20 | |
| 2.3 Computing And Data M | 2.3.5 Simulation Production | UW | GR | MCNALLY, FRANK | IceTop Simulation Production/Production / Data Processing | | | | 0.30 | | | | 0.30 | |
| 2.3 Computing And Data M | 2.3.5 Simulation Production | UW | TE | FADIRAN, OLADIPO | Simulation Production Coordination; production configurations, test production and web portal. | | | | 0.60 | | | | 0.60 | |
| 2.3 Computing And Data M | 2.3.5 Simulation Production | US Total | | | | | | | | 1.00 | 1.26 | 0.15 | | 2.41 |
| 2.3 Computing And Data M | 2.3.5 Simulation Production | DESY | SC | GORA, DARIUSZ | Simulation Production Cluster | | | | 0.20 | | | | 0.20 | |
| 2.3 Computing And Data M | 2.3.5 Simulation Production | DESY | PO | KARG, TIMO | Simulation Production | | | | 0.20 | | | | 0.20 | |
| 2.3 Computing And Data M | 2.3.5 Simulation Production | DESY | GR | DESY GR | Simulation Production Cluster | | | | 0.15 | | | | 0.15 | |
| 2.3 Computing And Data M | 2.3.5 Simulation Production | DTMND | GR | DTMD GR | Simulation Production | | | | 0.40 | | | | 0.40 | |
| 2.3 Computing And Data M | 2.3.5 Simulation Production | RWTH | GR | PAUL, LARRISA | Simulation Production on cluster/GRID | | | | 0.30 | | | | 0.30 | |
| 2.3 Computing And Data M | 2.3.5 Simulation Production | RWTH | GR | LEIF RADEL | Geant Simulations | | | | 0.10 | | | | 0.10 | |
| 2.3 Computing And Data M | 2.3.5 Simulation Production | RWTH | GR | WALLRAFF, MARIUS | Simulation Production on GPU | | | | 0.10 | | | | 0.10 | |
| 2.3 Computing And Data M | 2.3.5 Simulation Production | ULB | PO | ULB PO | Computer Cluster - simulation | | | | 0.30 | | | | 0.30 | |
| 2.3 Computing And Data M | 2.3.5 Simulation Production | VUB | PO | MILLER, JONATHAN | Ice properties and flasher runs | | | | 0.13 | | | | 0.13 | |
| 2.3 Computing And Data M | 2.3.5 Simulation Production | ALBERTA | KE | GRANT, DARREN | WestGrid computing | | | | 0.10 | | | | 0.10 | |
| 2.3 Computing And Data M | 2.3.5 Simulation Production | ALBERTA | GR | WOOD, TANIA | WestGrid computing | | | | 0.20 | | | | 0.20 | |
| 2.3 Computing And Data M | 2.3.5 Simulation Production | WUPPERTAL | GR | WUPPERTAL GR | Simulation Production | | | | 0.20 | | | | 0.20 | |
| 2.3 Computing And Data M | 2.3.5 Simulation Production | MAINZ | GR | WIEBE, KLAUS | Simulation Production | | | | 0.10 | | | | 0.10 | |
| 2.3 Computing And Data M | 2.3.5 Simulation Production | UMH | GR | KOHNNEN, GEORGES | Simulation Production | | | | 0.25 | | | | 0.25 | |
| 2.3 Computing And Data M | 2.3.5 Simulation Production | EPFL | PO | BRUIJN, RONALD | Run cluster EPFL | | | | 0.15 | | | | 0.15 | |
| 2.3 Computing And Data M | 2.3.5 Simulation Production | Non-US Total | | | | | | | | | | | 2.88 | 2.88 |
| 2.3 Computing And Data M | 2.3.5 Simulation Production | | | | | | | | | 1.00 | 1.26 | 0.15 | 2.88 | 5.29 |
| 2.3 Computing And Data M | WBS L2 Total | | | | | | | | | 8.45 | 2.46 | 0.45 | 6.43 | 17.79 |
| 2.4 Triggering And Filtering | 2.4.1 TFT Coordination | GTECH | KE | TABOADA, IGNACIO | TFT Board Chair | | | | 0.25 | | | | 0.25 | |
| 2.4 Triggering And Filtering | 2.4.1 TFT Coordination | UA | KE | WILLIAMS, DAWN | TFT Board member | | | | 0.10 | | | | 0.10 | |
| 2.4 Triggering And Filtering | 2.4.1 TFT Coordination | UD | KE | SECKEL, DAVID | TFT Board member | | | | 0.10 | | | | 0.10 | |
| 2.4 Triggering And Filtering | 2.4.1 TFT Coordination | UMD | SC | BLAUFUSS, ERIK | Filter requests, bandwidth, TFT Board Member | | | | 0.30 | | | | 0.30 | |
| 2.4 Triggering And Filtering | 2.4.1 TFT Coordination | UMD | GR | HELLAUER, ROBERT | Prepare datasets for filter testing and common MC datasets for testing | | | | 0.20 | | | | 0.20 | |
| 2.4 Triggering And Filtering | 2.4.1 TFT Coordination | US Total | | | | | | | | 0.30 | 0.45 | 0.20 | | 0.95 |
| 2.4 Triggering And Filtering | 2.4.1 TFT Coordination | ALBERTA | KE | GRANT, DARREN | TFT Board member | | | | 0.10 | | | | 0.10 | |
| 2.4 Triggering And Filtering | 2.4.1 TFT Coordination | BONN | PO | BOSSER, SEBASTIAN | TFT Board member | | | | 0.10 | | | | 0.10 | |
| 2.4 Triggering And Filtering | 2.4.1 TFT Coordination | DESY | PO | BERGHAUS, PATRICK | TFT Board member | | | | 0.10 | | | | 0.10 | |
| 2.4 Triggering And Filtering | 2.4.1 TFT Coordination | DESY | PO | KARG, TIMO | TFT Board member | | | | 0.10 | | | | 0.10 | |
| 2.4 Triggering And Filtering | 2.4.1 TFT Coordination | DPNC | KE | MONTARULI, TERESA | TFT Board member | | | | 0.10 | | | | 0.10 | |
| 2.4 Triggering And Filtering | 2.4.1 TFT Coordination | UU | KE | HALLGREN, ALLAN | TFT Board member | | | | 0.10 | | | | 0.10 | |
| 2.4 Triggering And Filtering | 2.4.1 TFT Coordination | UU | KE | DE LOS HEROS, CARLOS | TFT Board member | | | | 0.10 | | | | 0.10 | |
| 2.4 Triggering And Filtering | 2.4.1 TFT Coordination | Non-US Total | | | | | | | | | | | 0.50 | 0.50 |
| 2.4 Triggering And Filtering | 2.4.1 TFT Coordination | | | | | | | | | 0.30 | 0.45 | 0.20 | 0.50 | 1.45 |
| 2.4 Triggering And Filtering | 2.4 Triggering And Filtering | UA | GR | LARSON, MICHAEL | Track engine | | | | 0.15 | | | | 0.15 | |
| 2.4 Triggering And Filtering | 2.4 Triggering And Filtering | UA | GR | PEPPER, JAMES | 2013 DeepCore filter and L2 proposal | | | | 0.20 | | | | 0.20 | |
| 2.4 Triggering And Filtering | 2.4.2 Physics Filters | UA | KE | WILLIAMS, DAWN | Tau WG Chair | | | | 0.25 | | | | 0.25 | |
| 2.4 Triggering And Filtering | 2.4.2 Physics Filters | StonyBrook | KE | KIRYLUK,JOANNA | Cascade WG Co-Chair | | | | 0.25 | | | | 0.25 | |
| 2.4 Triggering And Filtering | 2.4.2 Physics Filters | LBNL | KE | KLEIN,SPENCER | Diffuse WG Co-chair | | | | 0.25 | | | | 0.25 | |
| 2.4 Triggering And Filtering | 2.4.2 Physics Filters | LBNL | PO | CHANG, HYON HA | L2 processing for IC86, studying cascade energy resolution | | | | 0.30 | | | | 0.30 | |
| 2.4 Triggering And Filtering | 2.4.2 Physics Filters | PSU | KE | DEYOUNG, TYCE | Low Energy WG - Co Chair | | | | 0.20 | | | | 0.20 | |
| 2.4 Triggering And Filtering | 2.4.2 Physics Filters | UCB | SC | WOSCHNAGG, KURT | Diffuse / atmosnu WG Co-chair | | | | 0.10 | | | | 0.10 | |
| 2.4 Triggering And Filtering | 2.4.2 Physics Filters | GTECH | GR | DAUGHHETEE, JACOB | Deep Core South Pole filter | | | | 0.15 | | | | 0.15 | |
| 2.4 Triggering And Filtering | 2.4.2 Physics Filters | UD | PO | TAMBURRO, ALESSIO | CR-WG Co Chair | | | | 0.25 | | | | 0.25 | |
| 2.4 Triggering And Filtering | 2.4.2 Physics Filters | UMD | SC | BLAUFUSS, ERIK | GRB WG Chair | | | | 0.25 | | | | 0.25 | |
| 2.4 Triggering And Filtering | 2.4.2 Physics Filters | UMD | PO | WISSING, HENRIKE | EHE and Brights WG co-chair | | | | 0.25 | | | | 0.25 | |
| 2.4 Triggering And Filtering | 2.4.2 Physics Filters | StonyBrook | PO | LESIK-BZDAK, MARIOLA | Cascade filters | | | | 0.20 | | | | 0.20 | |
| 2.4 Triggering And Filtering | 2.4.2 Physics Filters | OSU | PO | ROTT, CARSTEN | WIMP WG Co-Chair | | | | 0.25 | | | | 0.25 | |
| 2.4 Triggering And Filtering | 2.4.2 Physics Filters | UWRF | KE | SEUNARINE, SURUJ | Work on cascade filter | | | | 0.20 | | | | 0.20 | |
| 2.4 Triggering And Filtering | 2.4.2 Physics Filters | UW | KE | WESTERHOFF, STEFAN | CR-WG Co Chair | | | | 0.25 | | | | 0.25 | |
| 2.4 Triggering And Filtering | 2.4.2 Physics Filters | UW | PO | AUFFENBERG, JAN | Online filters (EHE) | | | | 0.15 | | | | 0.15 | |
| 2.4 Triggering And Filtering | 2.4.2 Physics Filters | UW | GR | WEAVER, CHRISTOPHER | Online filters | | | | 0.10 | | | | 0.10 | |
| 2.4 Triggering And Filtering | 2.4.2 Physics Filters | US Total | | | | | | | | 0.00 | 2.35 | 1.40 | 0.00 | 3.75 |
| 2.4 Triggering And Filtering | 2.4.2 Physics Filters | SU | GR | BOHM, CHRISTIAN | Track engine | | | | | | | 0.10 | 0.10 | |
| 2.4 Triggering And Filtering | 2.4.2 Physics Filters | ALBERTA | KE | GRANT, DARREN | Low Energy WG Co-Chair | | | | 0.25 | | | | 0.25 | |
| 2.4 Triggering And Filtering | 2.4.2 Physics Filters | CHIBA | SC | ISHIHARA, AYA | EHE and Brights WG co-chair | | | | 0.25 | | | | 0.25 | |
| 2.4 Triggering And Filtering | 2.4.2 Physics Filters | CHIBA | SC | ISHIHARA, AYA | EHE Filters | | | | 0.15 | | | | 0.15 | |
| 2.4 Triggering And Filtering | 2.4.2 Physics Filters | DESY | SC | GORA, DARIUSZ | Online Filter Alerts / NToO program | | | | 0.15 | | | | 0.15 | |
| 2.4 Triggering And Filtering | 2.4.2 Physics Filters | DESY | PO | BERGHAUS, PATRICK | moun channel WG Co. Chair | | | | 0.25 | | | | 0.25 | |
| 2.4 Triggering And Filtering | 2.4.2 Physics Filters | UU | SC | BOERSMA, DAVID | Develop Moon shadow and Galactic center filters | | | | | | | 0.15 | 0.15 | |
| 2.4 Triggering And Filtering | 2.4.2 Physics Filters | SU | KE | FINLEY, CHAD SU | Point Source WG Chair | | | | | | | 0.25 | 0.25 | |

IceCube M&O Staffing Matrix sort by WBS v13.0 2012.1001

| WBS L2 | WBS L3 | Institution | | Labor Names | | Tasks | | NSF M&O Core | NSF Base Grants | U.S. IN-KIND | Non U.S. In-Kind | Grand Total | | |
|-------------------------------------|--------------------------------------|---------------------|-----------------------|-------------------------|------------------|-------|------------------------|--------------|-----------------|--------------|------------------|-------------|-------------|-------------|
| | | Cat. | Description | Cat. | Description | Cat. | Description | | | | | | Cat. | Description |
| | | AD | Administration | GR | Graduate Student | PO | Postdoctoral Scientist | | | | | | TE | Technician |
| CS | Computer Science Eng. | KE | Key Personnel/Faculty | SC | Scientist | WO | Winterover | | | | | | | |
| EN | Engineer | MA | Management | SE | Senior Engineer | | | | | | | | | |
| 2.4 Triggering And Filtering | 2.4.2 Physics Filters | SU | GR | ZOLL, MARCEL | | | | | | | 0.15 | 0.15 | | |
| 2.4 Triggering And Filtering | 2.4.2 Physics Filters | SU | GR | DANNINGER, MATTIAS | | | | | | | 0.10 | 0.10 | | |
| 2.4 Triggering And Filtering | 2.4.2 Physics Filters | ULB | GR | BECHET, SABRIN | | | | | | | 0.15 | 0.15 | | |
| 2.4 Triggering And Filtering | 2.4.2 Physics Filters | UU | KE | HALLGREN, ALLAN | | | | | | | 0.20 | 0.20 | | |
| 2.4 Triggering And Filtering | 2.4.2 Physics Filters | UU | KE | DE LOS HEROS, CARLOS | | | | | | | 0.25 | 0.25 | | |
| 2.4 Triggering And Filtering | 2.4.2 Physics Filters | UU | GR | STROM, RICKARD | | | | | | | 0.20 | 0.20 | | |
| 2.4 Triggering And Filtering | 2.4.2 Physics Filters | VUB | PO | LABARE, MATHIEU | | | | | | | 0.25 | 0.25 | | |
| 2.4 Triggering And Filtering | 2.4.2 Physics Filters | VUB | GR | KUNNEN JAN | | | | | | | 0.50 | 0.50 | | |
| 2.4 Triggering And Filtering | 2.4.2 Physics Filters | WUPPERTAL | KE | HELBING, KLAUS | | | | | | | 0.25 | 0.25 | | |
| 2.4 Triggering And Filtering | 2.4.2 Physics Filters | WUPPERTAL | GR | WUPPERTAL GR | | | | | | | 0.20 | 0.20 | | |
| 2.4 Triggering And Filtering | 2.4.2 Physics Filters | DPNC | KE | MONTARULI, TERESA | | | | | | | 0.10 | 0.10 | | |
| 2.4 Triggering And Filtering | 2.4.2 Physics Filters | DPNC | PO | AGUILAR SANCHEZ JUAN A | | | | | | | 0.10 | 0.10 | | |
| 2.4 Triggering And Filtering | 2.4.2 Physics Filters | DPNC | GR | ASEN, CHRISTOV | | | | | | | 0.10 | 0.10 | | |
| 2.4 Triggering And Filtering | 2.4.2 Physics Filters | DPNC | GR | RAAMEZ MOHAMED | | | | | | | 0.20 | 0.20 | | |
| 2.4 Triggering And Filtering | 2.4.2 Physics Filters | BONN | KE | KOWALSKI, MAREK | | | | | | | 0.25 | 0.25 | | |
| 2.4 Triggering And Filtering | 2.4.2 Physics Filters | BONN | GR | FRANCKOWIAK, ANNA | | | | | | | 0.10 | 0.10 | | |
| 2.4 Triggering And Filtering | 2.4.2 Physics Filters | BONN | GR | HOMRIER, ANDREAS | | | | | | | 0.10 | 0.10 | | |
| 2.4 Triggering And Filtering | 2.4.2 Physics Filters | Non-US Total | | | | | | | | | | 4.50 | 4.50 | |
| 2.4 Triggering And Filtering | 2.4.2 Physics Filters | | | | | | | | | 0.00 | 2.35 | 1.40 | 4.50 | 8.25 |
| 2.4 Triggering And Filtering | WBS L2 Total | | | | | | | | | 0.30 | 2.80 | 1.60 | 5.00 | 9.70 |
| 2.5 Data Quality, Reconstr | 2.5.1 Simulation Programs | LBNL | PO | CHANG, HYON HA | | | | | | | 0.10 | 0.10 | | |
| 2.5 Data Quality, Reconstr | 2.5.1 Simulation Programs | LBNL | PO | GERHARDT, LISA | | | | | | | 0.20 | 0.20 | | |
| 2.5 Data Quality, Reconstr | 2.5.1 Simulation Programs | SUBR | KE | FAZELY, ALI | | | | | | | 0.15 | 0.15 | | |
| 2.5 Data Quality, Reconstr | 2.5.1 Simulation Programs | SUBR | SC | XIANWU, XU | | | | | | | 0.15 | 0.15 | | |
| 2.5 Data Quality, Reconstr | 2.5.1 Simulation Programs | KE | PO | TOALE, PATRICK | | | | | | | 0.10 | 0.10 | | |
| 2.5 Data Quality, Reconstr | 2.5.1 Simulation Programs | UA | GR | LARSON, MICHAEL | | | | | | | 0.15 | 0.15 | | |
| 2.5 Data Quality, Reconstr | 2.5.1 Simulation Programs | UA | KE | TOALE, PATRICK | | | | | | | 0.10 | 0.10 | | |
| 2.5 Data Quality, Reconstr | 2.5.1 Simulation Programs | UCB | SC | WOSCHNAGG, KURT | | | | | | | 0.50 | 0.50 | | |
| 2.5 Data Quality, Reconstr | 2.5.1 Simulation Programs | UD | PO | GONZALEZ, JAVIER | | | | | | | 0.10 | 0.10 | | |
| 2.5 Data Quality, Reconstr | 2.5.1 Simulation Programs | UD | GR | RUZYBAEV, BAKHTIYAR | | | | | | | 0.30 | 0.30 | | |
| 2.5 Data Quality, Reconstr | 2.5.1 Simulation Programs | UD | GR | UD GR | | | | | | | 0.30 | 0.30 | | |
| 2.5 Data Quality, Reconstr | 2.5.1 Simulation Programs | UMD | PO | OLIVAS, ALEX | | | | | | | 0.40 | 0.40 | | |
| 2.5 Data Quality, Reconstr | 2.5.1 Simulation Programs | UMD | PO | WISSING, HENRIKE | | | | | | | 0.13 | 0.13 | | |
| 2.5 Data Quality, Reconstr | 2.5.1 Simulation Programs | UMD | GR | REDL, PETER | | | | | | | 0.25 | 0.25 | | |
| 2.5 Data Quality, Reconstr | 2.5.1 Simulation Programs | UW | SC | CHIRKIN, DMITRY | | | | | | | 0.35 | 0.35 | | |
| 2.5 Data Quality, Reconstr | 2.5.1 Simulation Programs | UW | SC | HOSHINA, KOTOYO | | | | | | | 0.25 | 0.25 | | |
| 2.5 Data Quality, Reconstr | 2.5.1 Simulation Programs | UW | PO | KOPPER, CLAUDIO | | | | | | | 0.25 | 0.25 | | |
| 2.5 Data Quality, Reconstr | 2.5.1 Simulation Programs | UW | GR | RIEDEL, BENEDICT | | | | | | | 0.20 | 0.20 | | |
| 2.5 Data Quality, Reconstr | 2.5.1 Simulation Programs | UW | TE | DIAZ-VELEZ, JUAN CARLOS | | | | | | | 0.20 | 0.20 | | |
| 2.5 Data Quality, Reconstr | 2.5.1 Simulation Programs | US Total | | | | | | | | 1.70 | 2.18 | 0.30 | 4.18 | |
| 2.5 Data Quality, Reconstr | 2.5.1 Simulation Programs | DTMND | GR | MILKE, NATALIE | | | | | | | 0.20 | 0.20 | | |
| 2.5 Data Quality, Reconstr | 2.5.1 Simulation Programs | SU | KE | HULTQVIST, KLAS | | | | | | | 0.10 | 0.10 | | |
| 2.5 Data Quality, Reconstr | 2.5.1 Simulation Programs | SU | GR | FLIS, SAMUEL | | | | | | | 0.15 | 0.15 | | |
| 2.5 Data Quality, Reconstr | 2.5.1 Simulation Programs | UOX | KE | SARKAR, SUBIR | | | | | | | 0.10 | 0.10 | | |
| 2.5 Data Quality, Reconstr | 2.5.1 Simulation Programs | GENT | SC | UGENT SC | | | | | | | 0.10 | 0.10 | | |
| 2.5 Data Quality, Reconstr | 2.5.1 Simulation Programs | GENT | GR | UGENT GR | | | | | | | 0.40 | 0.40 | | |
| 2.5 Data Quality, Reconstr | 2.5.1 Simulation Programs | BOCHUM | KE | TJUS, JULIA | | | | | | | 0.10 | 0.10 | | |
| 2.5 Data Quality, Reconstr | 2.5.1 Simulation Programs | BOCHUM | GR | SCHÖNEBERG, SEBASTIAN | | | | | | | 0.10 | 0.10 | | |
| 2.5 Data Quality, Reconstr | 2.5.1 Simulation Programs | BOCHUM | GR | OLIVO, MARTINO | | | | | | | 0.10 | 0.10 | | |
| 2.5 Data Quality, Reconstr | 2.5.1 Simulation Programs | RWTH | GR | BLUMENTHAL, JAN | | | | | | | 0.10 | 0.10 | | |
| 2.5 Data Quality, Reconstr | 2.5.1 Simulation Programs | RWTH | GR | LEIF RADEL | | | | | | | 0.10 | 0.10 | | |
| 2.5 Data Quality, Reconstr | 2.5.1 Simulation Programs | RWTH | GR | SEBASTIAN SCHÖNEN | | | | | | | 0.10 | 0.10 | | |
| 2.5 Data Quality, Reconstr | 2.5.1 Simulation Programs | EPFL | KE | RIBORDY, MATHIEU | | | | | | | 0.20 | 0.20 | | |
| 2.5 Data Quality, Reconstr | 2.5.1 Simulation Programs | EPFL | PO | BRIJUN, RONALD | | | | | | | 0.30 | 0.30 | | |
| 2.5 Data Quality, Reconstr | 2.5.1 Simulation Programs | Non-US Total | | | | | | | | | | 2.15 | 2.15 | |
| 2.5 Data Quality, Reconstr | 2.5.1 Simulation Programs | | | | | | | | | 1.70 | 2.18 | 0.30 | 2.15 | 6.33 |
| 2.5 Data Quality, Reconstr | 2.5.2 Reconstruction/ Analysis Tools | LBNL | GR | MIARECKI, SANDRA | | | | | | | 0.30 | 0.30 | | |
| 2.5 Data Quality, Reconstr | 2.5.2 Reconstruction/ Analysis Tools | LBNL | GR | BINDER, GARY | | | | | | | 0.20 | 0.20 | | |
| 2.5 Data Quality, Reconstr | 2.5.2 Reconstruction/ Analysis Tools | PSU | PO | KOSKINEN, JASON | | | | | | | 0.20 | 0.10 | | |
| 2.5 Data Quality, Reconstr | 2.5.2 Reconstruction/ Analysis Tools | PSU | PO | KOSKINEN, JASON | | | | | | | 0.10 | 0.10 | | |
| 2.5 Data Quality, Reconstr | 2.5.2 Reconstruction/ Analysis Tools | PSU | PO | TESIC, GORDANA | | | | | | | 0.50 | 0.50 | | |
| 2.5 Data Quality, Reconstr | 2.5.2 Reconstruction/ Analysis Tools | PSU | GR | DUNKMAN, MATT | | | | | | | 0.50 | 0.47 | | |
| 2.5 Data Quality, Reconstr | 2.5.2 Reconstruction/ Analysis Tools | SUBR | KE | FAZELY, ALI | | | | | | | 0.15 | 0.15 | | |
| 2.5 Data Quality, Reconstr | 2.5.2 Reconstruction/ Analysis Tools | SUBR | SC | XIANWU, XU | | | | | | | 0.15 | 0.15 | | |
| 2.5 Data Quality, Reconstr | 2.5.2 Reconstruction/ Analysis Tools | UA | KE | TOALE, PATRICK | | | | | | | 0.10 | 0.10 | | |

IceCube M&O Staffing Matrix sort by WBS v13.0 2012.1001

| WBS L2 | WBS L3 | Institution | | Labor Names | | Tasks | | NSF M&O Core | NSF Base Grants | U.S. IN-KIND | Non U.S. In-Kind | Grand Total | | |
|---------------------------|--------|--------------------------------|-----------------------|-------------|-----------------------|---|------------------------|--------------|-----------------|--------------|------------------|-------------|-------------|-------------|
| | | Cat. | Description | Cat. | Description | Cat. | Description | | | | | | Cat. | Description |
| | | AD | Administration | GR | Graduate Student | PO | Postdoctoral Scientist | | | | | | TE | Technician |
| | | CS | Computer Science Eng. | KE | Key Personnel/Faculty | SC | Scientist | | | | | | WO | Winterover |
| | | EN | Engineer | MA | Management | SE | Senior Engineer | | | | | | | |
| 2.5 Data Quality, Reconst | Tools | 2.5.2 Reconstruction/ Analysis | UA | GR | XU, DONGLIAN | Improvements to low energy analysis framework | | 0.10 | | | | 0.10 | | |
| 2.5 Data Quality, Reconst | Tools | 2.5.2 Reconstruction/ Analysis | UA | GR | UA PO | Extension of GENIE to higher energies, GENIE/hugen comparison | | 0.10 | | | | 0.10 | | |
| 2.5 Data Quality, Reconst | Tools | 2.5.2 Reconstruction/ Analysis | UA | GR | UA PO | Hybrid reconstruction tools | | 0.20 | | | | 0.20 | | |
| 2.5 Data Quality, Reconst | Tools | 2.5.2 Reconstruction/ Analysis | UD | PO | GONZALEZ, JAVIER | Event reconstruction | | 0.25 | | | | 0.25 | | |
| 2.5 Data Quality, Reconst | Tools | 2.5.2 Reconstruction/ Analysis | UAA | KE | RAWLINS, KATHERINE | flat-ntuple; muon-bundle-reco; Snow correction for IceTop | | | 0.30 | | | 0.30 | | |
| 2.5 Data Quality, Reconst | Tools | 2.5.2 Reconstruction/ Analysis | UMD | PO | WISSING, HENRIKE | develop & test reconstruction | | 0.13 | | | | 0.13 | | |
| 2.5 Data Quality, Reconst | Tools | 2.5.2 Reconstruction/ Analysis | UMD | GR | REDL, PETER | Reconstruction/ Analysis tools | | 0.25 | | | | 0.25 | | |
| 2.5 Data Quality, Reconst | Tools | 2.5.2 Reconstruction/ Analysis | StonyBrook | PO | LESIAK-BZDAK, MARIOLA | Flashers and Standard Candle | | | 0.10 | | | 0.10 | | |
| 2.5 Data Quality, Reconst | Tools | 2.5.2 Reconstruction/ Analysis | StonyBrook | PO | LESIAK-BZDAK, MARIOLA | BadDomList software maintenance | | | 0.10 | | | 0.10 | | |
| 2.5 Data Quality, Reconst | Tools | 2.5.2 Reconstruction/ Analysis | StonyBrook | GR | NIEDERHAUSEN, HANS | Standard Candle | | 0.10 | | | | 0.10 | | |
| 2.5 Data Quality, Reconst | Tools | 2.5.2 Reconstruction/ Analysis | StonyBrook | GR | NIEDERHAUSEN, HANS | Cascade reconstruction | | 0.10 | | | | 0.10 | | |
| 2.5 Data Quality, Reconst | Tools | 2.5.2 Reconstruction/ Analysis | UW | SC | CHIRKIN, DMITRY | Direct photon tracking / iceproperties calibration; FE/pulse extractor; reco S/W | | 0.30 | | | | 0.30 | | |
| 2.5 Data Quality, Reconst | Tools | 2.5.2 Reconstruction/ Analysis | UW | PO | AUFFENBERG, JAN | Energy Reconstruction | | 0.15 | | | | 0.15 | | |
| 2.5 Data Quality, Reconst | Tools | 2.5.2 Reconstruction/ Analysis | UW | GR | GLADSTONE, LAURA | Reconstruction tools-Deep Core | | 0.15 | | | | 0.15 | | |
| 2.5 Data Quality, Reconst | Tools | 2.5.2 Reconstruction/ Analysis | UW | GR | FEINTZIG, JACOB | Event reconstruction (spline fits) | | 0.15 | | | | 0.15 | | |
| 2.5 Data Quality, Reconst | Tools | 2.5.2 Reconstruction/ Analysis | UW | GR | VAN SANTEN, JACOB | Cascades | | 0.30 | | | | 0.30 | | |
| 2.5 Data Quality, Reconst | Tools | 2.5.2 Reconstruction/ Analysis | UW | PO | WHITEHORN, NATHAN | Event Reconstruction | | 0.30 | | | | 0.30 | | |
| 2.5 Data Quality, Reconst | Tools | 2.5.2 Reconstruction/ Analysis | UWRF | KE | MADSEN, JIM | Cosmic ray shower simulations and reconstruction | | | 0.10 | | | 0.10 | | |
| 2.5 Data Quality, Reconst | Tools | 2.5.2 Reconstruction/ Analysis | UWRF | KE | SEUNARINE, SURUJ | Low-Energy Extensions of IceTop | | 0.10 | | | | 0.10 | | |
| 2.5 Data Quality, Reconst | Tools | 2.5.2 Reconstruction/ Analysis | US Total | | | | | | 0.00 | 3.98 | 1.40 | | 5.38 | |
| 2.5 Data Quality, Reconst | Tools | 2.5.2 Reconstruction/ Analysis | ADELAIDE | KE | HILL, GARY | Event energy and direction reconstruction, millipede | | | | 0.40 | | 0.40 | | |
| 2.5 Data Quality, Reconst | Tools | 2.5.2 Reconstruction/ Analysis | ADELAIDE | GR | AARTSEN, MARK | Event energy and direction reconstruction, millipede | | | | 0.50 | | 0.50 | | |
| 2.5 Data Quality, Reconst | Tools | 2.5.2 Reconstruction/ Analysis | CHIBA | KE | YOSHIDA, SHIGERU | Maintain Romeo, EHE Simulations, Calibration using Standard Candles | | | | 0.20 | | 0.20 | | |
| 2.5 Data Quality, Reconst | Tools | 2.5.2 Reconstruction/ Analysis | CHIBA | SC | KEIICHI MASE | Maintain Romeo, EHE Simulations, Maintain reconstruction projects (Portia), MC/Data comparison for EHE-filtered and IceTop events, Standard Candle Analysis | | | | 0.20 | | 0.20 | | |
| 2.5 Data Quality, Reconst | Tools | 2.5.2 Reconstruction/ Analysis | CHIBA | GR | CHIBA GR | Improve the Ice Model, Afterpulse Simulator, Standard Candle Analysis, Maintain reconstruction projects (Ophelia, ehe-star) | | | | 0.20 | | 0.20 | | |
| 2.5 Data Quality, Reconst | Tools | 2.5.2 Reconstruction/ Analysis | DESY | GR | SCHÖNWALD, ARNE | Cascade Reconstruction | | | | 0.10 | | 0.10 | | |
| 2.5 Data Quality, Reconst | Tools | 2.5.2 Reconstruction/ Analysis | UU | SC | BOERSMA, DAVID | Reconstruction Coordinator | | | | 0.20 | | 0.20 | | |
| 2.5 Data Quality, Reconst | Tools | 2.5.2 Reconstruction/ Analysis | RWTH | GR | VEHRING, MARKUS | Finite track reconstruction | | | | 0.10 | | 0.10 | | |
| 2.5 Data Quality, Reconst | Tools | 2.5.2 Reconstruction/ Analysis | RWTH | GR | VEHRING, MARKUS | Genie MC development | | | | 0.20 | | 0.20 | | |
| 2.5 Data Quality, Reconst | Tools | 2.5.2 Reconstruction/ Analysis | RWTH | GR | WALLRAFF, MARIUS | Oscillation Propagation tool for neutrino oscillations in Earth | | | | 0.10 | | 0.10 | | |
| 2.5 Data Quality, Reconst | Tools | 2.5.2 Reconstruction/ Analysis | SU | GR | FLIS, SAMUEL | Energy Reconstruction | | | | 0.10 | | 0.10 | | |
| 2.5 Data Quality, Reconst | Tools | 2.5.2 Reconstruction/ Analysis | SU | GR | WOLF, MARTIN | Truncated Mean, EventViewer, cluster tool | | | | 0.20 | | 0.20 | | |
| 2.5 Data Quality, Reconst | Tools | 2.5.2 Reconstruction/ Analysis | VUB | KE | VAN EIJDHOVEN, NICK | development of reconstruction tools (IcePack framework) | | | | 0.25 | | 0.25 | | |
| 2.5 Data Quality, Reconst | Tools | 2.5.2 Reconstruction/ Analysis | VUB | PO | BOSE, DEBANJAN | muon track reconstruction in IceCube and DeepCore, waveform feature extractor | | | | 0.25 | | 0.25 | | |
| 2.5 Data Quality, Reconst | Tools | 2.5.2 Reconstruction/ Analysis | VUB | PO | LABARE, MATHIEU | muon track reconstruction in IceCube and DeepCore | | | | 0.13 | | 0.13 | | |
| 2.5 Data Quality, Reconst | Tools | 2.5.2 Reconstruction/ Analysis | VUB | PO | GOLUP, GERALDINA | muon track reconstruction for IceCube and DeepCore | | | | 0.25 | | 0.25 | | |
| 2.5 Data Quality, Reconst | Tools | 2.5.2 Reconstruction/ Analysis | VUB | GR | CASIER MARTIN | muon track reconstruction in IceCube and DeepCore | | | | 0.50 | | 0.50 | | |
| 2.5 Data Quality, Reconst | Tools | 2.5.2 Reconstruction/ Analysis | VUB | GR | BRAYEUR LIONEL | muon track reconstruction in IceCube and DeepCore | | | | 0.50 | | 0.50 | | |
| 2.5 Data Quality, Reconst | Tools | 2.5.2 Reconstruction/ Analysis | ALBERTA | KE | GRANT, DARREN | Maintenance of IceCube-Photonics interface | | | | 0.10 | | 0.10 | | |
| 2.5 Data Quality, Reconst | Tools | 2.5.2 Reconstruction/ Analysis | WUPPERTAL | GR | WUPPERTAL GR | New SUSY Reconstruction, Simulation, Propagation, Monopole, Photonics | | | | 0.50 | | 0.50 | | |

IceCube M&O Staffing Matrix sort by WBS v13.0 2012.1001

| WBS L2 | WBS L3 | Institution | | Labor | | Names | | Tasks | | NSF M&O Core | NSF Base Grants | U.S. IN-KIND | Non U.S. In-Kind | Grand Total |
|--|---|---------------------|-----------------------|------------------------|-----------------------|-------|---|-------|-------------|--------------|-----------------|--------------|------------------|--------------|
| | | Cat. | Description | Cat. | Description | Cat. | Description | Cat. | Description | | | | | |
| | | AD | Administration | GR | Graduate Student | PO | Postdoctoral Scientist | TE | Technician | | | | | |
| | | CS | Computer Science Eng. | KE | Key Personnel/Faculty | SC | Scientist | WO | Winterover | | | | | |
| | | EN | Engineer | MA | Management | SE | Senior Engineer | | | | | | | |
| 2.5 Data Quality, Reconst | 2.5.2 Reconstruction/ Analysis Tools | MAINZ | GR | SCHATTO, KAI | | | PPC based tables Muon reconstruction | | | | | 0.10 | 0.10 | |
| 2.5 Data Quality, Reconst | 2.5.2 Reconstruction/ Analysis Tools | MAINZ | GR | WIEBE, KLAUS | | | Angular res. Cascades | | | | | 0.20 | 0.20 | |
| 2.5 Data Quality, Reconst | 2.5.2 Reconstruction/ Analysis Tools | HUMBOLDT | KE | KOLANOSKI, HERMANN | | | Reconstruction/ Analysis tools | | | | | 0.10 | 0.10 | |
| 2.5 Data Quality, Reconst | 2.5.2 Reconstruction/ Analysis Tools | HUMBOLDT | GR | ALTMANN, DAVID | | | Improving the track reconstruction. | | | | | 0.15 | 0.15 | |
| 2.5 Data Quality, Reconst | 2.5.2 Reconstruction/ Analysis Tools | BONN | GR | UBONN GR | | | Reconstruction/ Analysis tools | | | | | 0.20 | 0.20 | |
| 2.5 Data Quality, Reconst | 2.5.2 Reconstruction/ Analysis Tools | BONN | GR | PANKNIN, SEBASTIAN | | | IC-40 L3 processing | | | | | 0.20 | 0.20 | |
| 2.5 Data Quality, Reconst | 2.5.2 Reconstruction/ Analysis Tools | Non-US Total | | | | | | | | | | 5.93 | 5.93 | |
| 2.5 Data Quality, Reconst | 2.5.2 Reconstruction/ Analysis Tools | | | | | | | | 0.00 | 3.98 | 1.40 | 5.93 | 11.30 | |
| 2.5 Data Quality, Reconst | 2.5.3 Data Quality | US Total | | | | | | | 0.00 | 0.00 | 0.00 | | 0.00 | |
| 2.5 Data Quality, Reconst | 2.5.3 Data Quality | Munchen | PO | MPI PO | | | Data Quality & DeepCore | | | | | 0.60 | 0.60 | |
| 2.5 Data Quality, Reconst | 2.5.3 Data Quality | DPNC | GR | ASEN, CHRISTOV | | | Data and Simulation Quality | | | | | 0.20 | 0.20 | |
| 2.5 Data Quality, Reconst | 2.5.3 Data Quality | DPNC | GR | RAAMEZ MOHAMED | | | Data and Simulation Quality | | | | | 0.20 | 0.20 | |
| 2.5 Data Quality, Reconst | 2.5.3 Data Quality | DPNC | PO | AGUILAR SANCHEZ JUAN A | | | Data and Simulation Quality | | | | | 0.20 | 0.20 | |
| 2.5 Data Quality, Reconst | 2.5.3 Data Quality | VUB | KE | VAN EIJDHOVEN, NICK | | | data quality verification | | | | | 0.25 | 0.25 | |
| 2.5 Data Quality, Reconst | 2.5.3 Data Quality | VUB | PO | GOLUP, GERALDINA | | | GRB analysis | | | | | 0.25 | 0.25 | |
| 2.5 Data Quality, Reconst | 2.5.3 Data Quality | VUB | PO | BOSE, DEBANJAN | | | verification Deep Core data quality | | | | | 0.25 | 0.25 | |
| 2.5 Data Quality, Reconst | 2.5.3 Data Quality | VUB | PO | LABARE, MATHIEU | | | verification Deep Core data quality | | | | | 0.13 | 0.13 | |
| 2.5 Data Quality, Reconst | 2.5.3 Data Quality | VUB | PO | MILLER, JONATHAN | | | WIMP analysis | | | | | 0.38 | 0.38 | |
| 2.5 Data Quality, Reconst | 2.5.3 Data Quality | Non-US Total | | | | | | | | | | 2.45 | 2.45 | |
| 2.5 Data Quality, Reconst | 2.5.3 Data Quality | | | | | | | | 0.00 | 0.00 | 0.00 | 2.45 | 2.45 | |
| 2.5 Data Quality, Reconst | 2.5.4 Offline Data Processing | UW | PO | AUFFENBERG, JAN | | | Offline Data Processing - EHE | | | | | 0.15 | 0.15 | |
| 2.5 Data Quality, Reconst | 2.5.4 Offline Data Processing | UW | PO | KOPPER, CLAUDIO | | | L2 processing support | | | | | 0.30 | 0.30 | |
| 2.5 Data Quality, Reconst | 2.5.4 Offline Data Processing | UW | PO | NEILSON, NAOKO | | | L2 Offline Processing | | | | | 0.30 | 0.30 | |
| 2.5 Data Quality, Reconst | 2.5.4 Offline Data Processing | UW | GR | FEINTZIG, JACOB | | | L2 processing, muon stream | | | | | 0.20 | 0.20 | |
| 2.5 Data Quality, Reconst | 2.5.4 Offline Data Processing | US Total | | | | | | | 0.60 | 0.35 | 0.00 | | 0.95 | |
| 2.5 Data Quality, Reconst | 2.5.4 Offline Data Processing | Non-US Total | | | | | | | | | | 0.00 | 0.00 | |
| 2.5 Data Quality, Reconst | 2.5.4 Offline Data Processing | | | | | | | | 0.60 | 0.35 | 0.00 | 0.00 | 0.95 | |
| 2.5 Data Quality, Recons WBS L2 Total | | | | | | | | | | 2.30 | 6.50 | 1.70 | 10.53 | 21.03 |
| Grand Total | | | | | | | | | | 30.75 | 14.89 | 7.34 | 31.90 | 84.87 |