**IceCube Institutional Memorandum Of Understanding (MOU)**

**Scope of Work**

**SNOLAB**

**Ken Clark**

**Ph.D Scientists** (Faculty Scientist/Post Doc Grads): **1** (1 0 0)

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Labor Cat.** | **Names** | **WBS Level 3** | **Tasks** | WBS 2.1 | WBS 2.2 | WBS 2.3 | WBS 2.4 | WBS 2.5 | WBS 2.6 | **Grand Total** |
| Program Coordination | Detector Maintenance & Operations | Computing & Data Management | Data Processing & Simulation | Software | Calibration |
| KE | Ken Clark | Engineering and R&D Support | Meeting Coordination | 0.20 |  |  |  |  |  | 0.20 |
|  | ~~Distributed Computing Resources~~ | ~~Compute Canada Maintenance~~ |  |  | ~~0.10~~ |  |  |  | ~~0.10~~ |
|  | Engineering and R&D Support | Production/Monitoring |  |  |  | 0.20 |  |  | 0.20 |
|  |  | Simulation Software | Low Energy Simulation Software updates |  |  |  |  | 0.10 |  | 0.10 |
|  | **Name of Key Person Total** | |  | **0.20** |  |  | **0.20** | **0.10** |  | **0.50** |
| **SNOLAB Total** | | |  | **0.20** |  |  | **0.20** | **0.10** |  | **0.50** |

**Note: Gen-2 contributions not relevant to IceCube M&O are highlighted in blue** (Total: 0.40 FTE)

**Faculty:**

Ken Clark – focused on the low energy simulation for IceCube (primarily DeepCore) and the proposal for Gen 2.

**Scientists and Post Docs:**

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**Grad Students:**



**Computing Resources**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **2016** | | **2017** | |
|  | **CPU Cores** | **GPU Cards** | **CPU Cores** | **GPU Cards** |
| **IceCube** |  |  |  |  |
| **PINGU** |  | 45 years |  | 45 years |
| **Gen2** |  | 10 yearMas |  | 10 years |