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

**Scope of Work**

**Drexel University**

**Naoko Kurahashi Neilson**

**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** | **Grand Total** |
| Program Management | Detector Maintenance & Operations | Computing & Data Management | Triggering & Filtering | Data Quality, Reconstruction & Simulation Tools |
| KE | Naoko Kurahashi Neilson | Physics Filter | Point Source WG Lead |  |   |   | 0.25 |   | 0.25 |
|  | Administration | ICB member | 0.05 |  |   |   |   | 0.05 |
|  | Physics Filter | Splitting – Q/P frame and coincidence  |  |   |   | 0.05  |  | 0.05 |
|   | **Naoko Kurahashi Neilson Total** |  | **0.05** |  |  | **0.30** |  | **0.35** |
| **Drexel University Total** |  |  |  **0.05** |  | **0.30** |  | **0.35** |

**Faculty:**

Naoko Kurahashi Neilson

M&O

* Working group co-leader for Point Source analysis channel
* Development/maintenance of event splitting modules, particularly for the muon channel but for all events

 Analysis

* Point source analysis focused on the southern sky, particularly using contained cascades and starting tracks
* Diffuse source analysis such as galactic plane and other large regions