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

**Scope of Work**

**Ohio State University**

**James Beatty**

**Ph.D Scientists** (Faculty Scientist/Post Doc Grads): **2** (1 1 0)

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Labor Cat.** | **Names** | **WBS L3** | **Tasks** | **Funds Source** | **WBS 2.1** | **WBS 2.2** | **WBS 2.3** | **WBS 2.4** | **WBS 2.5** | **WBS 2.6** | **Grand Total** |
| KE | BEATTY,  JAMES |  | PI |  |  |  |  |  |  |  | 0.0 |
|  | **BEATTY, JAMES Total** | | |  |  |  |  |  |  |  | **0.0** |
| PD | SUTHERLAND, MICHAEL | Offline Data Processing | Pass2 Verification | NSF |  |  |  | 0.05 |  |  | 0.05 |
|  |  | Detector Monitoring | Detector Monitoring Shifts | NSF |  | 0.05 |  |  |  |  | 0.05 |
|  |  | Education & Outreach | Masterclass | NSF | 0.05 |  |  |  |  |  | 0.05 |
|  | **SUTHERLAND, MICHAEL Total** | | |  | **0.05** | **0.05** |  | **0.05** |  |  | **0.15** |
| **OSU Total** | |  |  |  | **0.05** | **0.05** |  | **0.05** |  |  | **0.15** |

**Faculty:**

Jim Beatty – (10% FTE (overall)) Analysis

**Scientists and Post Docs:**

Michael Sutherland: (70% FTE IceCube) Pass2 verification, Test Run verification, detector monitoring shifts, MasterClass outreach, CR data analysis

Analysis: Investigate time-dependent signals in cosmic rays from a multi-messenger aspect using as astrophysical neutrino signals

**Ph.D. Students:**

No funding for students is currently available.

**General:**

We are currently exploring new topics in cosmic rays for our analysis focus.