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

**Scope of Work**

**Mercer University**

**Frank McNally**

**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 | Frank McNally | 2.1.1 Administration | Program administration | 0.10 |  |  |  |  |  | 0.10 |
|  | 2.5.3 Reconstruction | IceTop energy reconstruction with CNNs |  |  |  |  | 0.10 |  | 0.10 |
|  | 2.1.4 Education & Outreach | IceCube MasterClass | 0.05 |  |  |  |  |  | 0.05 |
|  | **Frank McNally Total** | |  | **0.15** |  |  |  | **0.10** |  | **0.25** |
| **Mercer University Total** | | |  | **0.15** |  |  |  | **0.10** |  | **0.25** |

**Faculty:**

Frank McNally – energy reconstruction for IceTop using convolutional neural networks, CR anisotropy analysis

**Undergraduate Students:**

Currently 3 undergraduates with a full-time appointment over the summer (10 weeks)  
and 6 hours/week (each) during the school year