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

**Scope of Work**

**Southern University**

**Ali R. Fazely**

**Ph.D Scientists** (Faculty Scientist/Post Doc Grads): **3** (2 1 0)

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Labor Cat.** | **Names** | **WBS L3** | **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 | FAZELY, ALI | Reconstruction/ Analysis tools | Reconstruction/ Analysis tools |  |  |  |  | 0.15 | 0.15 |
|  |  | Simulation Programs | GEANT Simulation |  |  |  |  | 0.15 | 0.15 |
|  | **FAZELY, ALI Total** | |  |  |  |  |  | **0.30** | **0.30** |
|  | TER-ANTONYAN, SAMVEL | Analysis tools, Computing Resources | LONI Grid computing |  |  | 0.30 |  |  | 0.30 |
|  |  | Detector Monitoring | Detector Monitoring |  | 0.02 |  |  |  | 0.02 |
|  | **TER-ANTONYAN, SAMVEL Total** | |  |  | **0.02** | **0.30** |  |  | **0.32** |
| SC | Xianwu Xu | Reconstruction/ Analysis tools | Reconstruction/ Analysis tools |  |  |  |  | 0.15 | 0.15 |
|  |  | Simulation Programs | Simulation Programs |  |  |  |  | 0.15 | 0.15 |
|  | **Total** | |  |  |  |  |  | **0.30** | **0.30** |
| **SUBR Total** | |  |  |  | **0.02** | **0.30** |  | **0.60** | **0.92** |

**Faculty:**

Ali R. Fazely – Detector Simulations, Analysis tools, Geant/GCALOR. (0.3 FTE) Source of Support: SUBR Faculty, Summer salary: None

Samvel Ter-Antonyan – IceTop Simulation/Reconstruction. CORSIKA (0.3FTE), Source of Support: SUBR Faculty, Summer salary, None

**Scientist:**

Xianwu Xu – Detector Simulations, Analysis tools, Geant/GCALOR (0.3FTE). Source of Support: None

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