

The Pennsylvania State University Budget Justification:

Brendan Derrick Taff, Principal Investigator, will spend approximately 1.6 weeks annually for the 18-month duration of the research project. Dr. Taff's time will equate to \$4,228 over the span of the project.

TBN Post-Doctoral Scholar will be employed for 1.6 weeks annually, to aid in data collection and processing, which will equate to \$1,979 over the span of the project.

Fringe benefits are computed using the fixed rates of 40.20% applicable to Category I Salaries, and 25.70% for Category V, Postdoctoral Scholars and Fellows, for fiscal year 2017 (July 1, 2016, through June 30, 2017). If this proposal is funded, the rates quoted above shall, at the time of funding, be subject to adjustment for any period subsequent to June 30, 2017, if superseding Government approved rates have been established. Fringe benefit rates are negotiated and approved by the Office of Naval Research, Penn State's cognizant federal agency.

Travel expenses are for 2 people (B. Derrick Taff & TBN Post-Doc employee) and encompass airfare, lodging, car rental, and per diem for a site visit for one week.

Supply expenses are for the purchase of 1 GPS unit (given the remote nature of this project), and to purchase Fulcrum software for iPads, to collect the digital-based data.

Contractual costs will be incurred with The Leave No Trace Center for Outdoor Ethics, through their Education Director, Ben Lawhon, to help us synthesize the results, into specific implications and recommendations that the BLM and GSENM can implement to conserve the ecological and social/experiential resources. The Leave No Trace Center has had an MOU with the BLM since 1994, and the Center remains the most prominent minimum impact educational strategy implemented in federal protected areas, such as the BLM's GSENM. Drs. Jeremy Wimpey and Jeff Marion, represented through Applied Trails Research, will be leading the recreation ecology impact assessment portion of this project, advising on the data dictionary, GPS-based GIS assessment, and synthesis of these data.

F&A rates are negotiated and approved by the Office of Naval Research, Penn State's cognizant federal agency. Penn State's current off-campus rate for this research agreement is 26% of MTDC from April 1, 2017, through June 30, 2017. New awards and new competitive segments with an effective date of July 1, 2017, or later shall be subject to adjustment when superseding Government approved rates are establish. Per 2 CFR 200 (Appendix III, Section C.7), the actual F&A rates used will be fixed at the time of the initial award for the duration of the competitive agreement.