

Integrated Cluster Project Proposal Budget Form

Project Name

Beebe River L-TEME Phase II: Capacity Building in Fish and Watershed Science

Cluster Name

Tourism Environment & Sustainable Development

Supply and Materials Needs Statement

We are requesting a total of \$1000 for supplies to purchase materials to quantify HSP70 in Brook trout gills and to preserve/store macroinvertebrate samples. This funding will specifically pay for reagents and consumables for Western blotting (SDS page gels, transfer stacks, antibodies, buffers, etc.) and scintillation vials for macroinvertebrate samples. We ask for \$700 in equipment to store the fish pit tag antenna readers to protect them from rain. In addition, we request \$9000 toward the purchase of a Backpack Electroshocker that will be used to sample stream/river fish in both research and classroom contexts. The total cost of a shocker is \$9985; we initially had secured a \$5000 match from the CFE (FY18), but this funding has expired. Therefore, we ask for a greater portion of it to be covered by the university as a one-time capacity building purchase. In AY 2019 there will be 5 graduate students pursuing fish-related projects (advised by Villamagna, O'Donnell, Yurewicz). In addition, partnership with NHFG, local TU chapters, and White Mountains National Forest has offered additional opportunities to pursue watershed and fish-related studies. In addition, use of a backpack electroshocker will be demonstrated in ESP 1500 Intro to Field Techniques. Use of the backpack electroshocker requires IACUC training and permits from NHFG, which will be pursued if/when we are awarded funding.

Expendable supplies

\$1,000

Equipment

\$700

Technology

\$9,000

Travel Needs Statement

Funding is requested to support travel for 3 students and 2 faculty affiliated with the Beebe River L-TEME to participate in the American Fisheries Society Annual Meeting in Atlantic City, NJ August 2018. SRAC opportunities are not available over the summer or for first year graduate students that have yet to start classes. We request funding to support 2 rooms (\$129/night) for 3 nights and partial funding for food for participants. Faculty will use professional development funds to help offset the cost of their participation. Lodging for 1 room x 3 nights and transportation to and from the meeting is provided by NFWF funding.

Lodging

\$400

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Transportation

Meals

General Operating Expense Needs Statement

We have requested \$1245 to support the registration for 3 students (\$250 each and 1 faculty \$495 each) to the AFS meeting described above.

Marketing and PR

Contract Work

Business Meetings

Other general expense

\$1,245

Personnel Needs Statement

Amy Villamagna and Brigid O'Donnell are the main faculty supervisors on this summer cluster project. We plan to split 1 month of funding to support our time invested in the field/lab with students and partners as well as preparing for the fall courses that will visit Beebe River. \$2400 is requested to support Undergrad stipend for work in the Androscoggin watershed.

Undergraduate Student Stipend

\$2,400

Undergraduate Work Study expense

\$2,400

External Hire Administrative expense

Requires Faculty Release time

No

Full Time Faculty Course Release expense

Full Time Faculty Summer Stipend Expense

\$4,170

Teaching Lecturer Expense

Graduate Assistance Expense

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TOTAL Funding Request Amount

\$21,315

Funding Sources

Other Funding Sources Statement

We have acquired \$25000 funding from NFWF (7/1/19-9/1/18) in subcontract from The Conservation Fund to a) support a new graduate research assistant during the 2018-19 AY, b) purchase supplies to build and install ground-based antennae that monitor fish movement, c) fund genetic analysis, and d) fund a graduate student to travel to present our research at the annual American Fisheries Society national meeting in Atlantic City, NJ in August (no registration fee provided). In addition, we have secured funding from PSU's Center for the Environment to support (stipend and housing) 3 undergraduate students (\$12,000). NH Fish and Game and the Basil Woods Trout Unlimited chapter have collectively promised \$3500 to support research in the Warner River. External (non-cluster) financial support for summer 2018 research totals more than \$40,000 in cash and > \$8,000 of in-kind support from NHFG (use of 1 electroshocker, but two are required for sampling protocol).

Other Sources of funds - Grants

\$25,000

Other Sources of funds - partners

\$11,500

Other sources of funds - other

\$17,000

External Funding Amount

\$53,500

Net Financial Impact to PSU

\$32,185

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