

Collaborative Research: Resource of Open Problems for Education (ROPE)

Budget Justification

Dana C. Ernst

A. PERSONNEL

PI Ernst requests 0.5 of one month's summer salary and the associated fringe benefits each year for 3 years. We have assumed a salary increase of 3% per year. During the funding period, the PI will work intensively on the specific tasks listed in the project description and other related items.

Subtotal: \$10,927

B. OTHER PERSONNEL

None.

Subtotal: \$0

C. FRINGE BENEFITS

Fringe benefits were calculated using NAU formulas for benefit rates for FY 2013 (15.6%).

Subtotal: \$1,705

D. EQUIPMENT

None.

Subtotal: \$0

E. TRAVEL

Travel funds are requested to allow the PI to attend national mathematics meetings to disseminate information about the OPL to allow for face-to-face team meetings. Travel to the collaborative PIs' institutions is also anticipated for meetings with the Advisory Group and External Evaluator. In Years 2 and 3, funds are included to support undergraduate travel to the Joint Mathematical Meetings where they will have a demonstration of the OPL.

Year 1: The PI is requesting a total of \$5550.

- \$4300 for travel to both the Joint Mathematics Meetings and MathFest.
- \$625 for travel for meeting Advisory Group and other co-PIs.
- \$625 for travel for meeting with External Evaluator and other co-PIs.

Year 2: The PI is requesting a total of \$7550.

- \$4300 for travel to both the Joint Mathematics Meetings and MathFest.
- \$625 for travel for meeting Advisory Group and other co-PIs.
- \$625 for travel for meeting with External Evaluator and other co-PIs.
- \$2000 for travel for two undergraduate students to Joint Mathematics Meetings.

Year 3: The PI is requesting a total of \$6330.

- \$4300 for travel to both the Joint Mathematics Meetings and MathFest.
- \$2000 for travel for two undergraduate students to Joint Mathematics Meetings.

Subtotal: \$19,400

F. PARTICIPANT SUPPORT COSTS

None.

Subtotal: \$0

G. OTHER DIRECT COSTS

None.

Subtotal: \$0

H. TOTAL DIRECT COSTS

The total direct cost is the sum of summer salaries, fringe benefits, and travel for years 1–3.

Subtotal: \$32,031

I. INDIRECT COSTS

Indirect costs are calculated based on Northern Arizona University's Colleges and Universities Rate Agreement, which stipulates an on-campus rate of 49% MTDC, with exclusions for tuition, equipment, and subawards greater than \$25,000.

Subtotal: \$15,695

J. TOTAL DIRECT AND INDIRECT COSTS

This is the sum of items H and I.

Total: \$47,726

M. COST SHARING

None.

Subtotal: \$0
