

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

Budget Justification

Dana C. Ernst

A. PERSONNEL

PI Ernst requests 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: \$????

B. OTHER PERSONNEL

None.

Subtotal: \$0

C. FRINGE BENEFITS

Fringe benefits were calculated using NAU formulas for benefit rates for FY 2013 (15.4%).

Subtotal: \$????

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: \$?????

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 50% MTDC in year 1 and 52% in years 2 and 3, with exclusions for tuition, equipment, and subawards greater than \$25,000.

Subtotal: \$?????

J. TOTAL DIRECT AND INDIRECT COSTS

This is the sum of items H and I.

Total: \$?????

M. COST SHARING

None.

Subtotal: \$0