

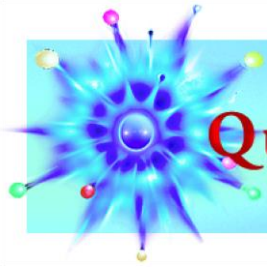


# Resources & Funding

## Introduction

**To conclude our presentation, the following slides give a summary of the resources we need to run the QuarkNet program.**

**Costs are for the 1<sup>st</sup> year of the new program, and the support listed is from this proposal budget unless otherwise noted.**



**QuarkNet**

# National Resources & Costs

## **4 Principal Investigators**

Program oversight, financial management, annual reporting, respond to evaluation.

- **No cost to the program**

## **2 Staff Teachers (1.5 FTE)**

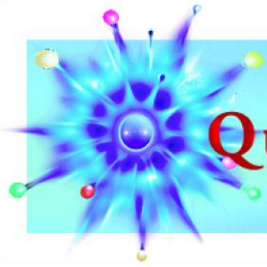
Assist centers & mentors, visit centers, develop materials, support activities, manage fellows, run workshops, present at meetings, conferences.

- **\$236,660 for salary & benefits**

## **1 Education Specialist (.25 FTE)**

Review instructional materials, support workshops & other activities.

- **\$15,000, part-time  
(funding from ATLAS award)**



**QuarkNet**

# National Resources & Costs

## 1 External Evaluator

Outcomes-based assessment (gather and analysis of data) of program, produce annual and final reports

- **\$50,000**

## 2 Computing Specialists (1.5 FTE)

Develop and maintain software for e-labs and masterclasses, provide datasets, maintain websites and databases.

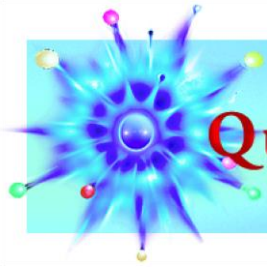
- **\$102,113 for 50% of salary & benefits for each**

## Fellows

**41** master teachers provide a force multiplier for staff teachers; help

**3** with centers, workshops, masterclasses.

- **\$32,500 for stipends and travel (funding from ATLAS award)**



**QuarkNet**

# National Resources & Costs

## 1 Administrator

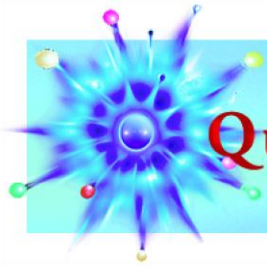
Coordinate all financial support, including participants, fellows, travel; maintain databases, listservs, MOUs with centers

- **\$40,287 for 50% of salary and benefits**

## Advisory Board

Teachers, educators, physicists meet annually to review and assess the program, provide annual report.

- **\$14,000 for travel to annual review**



**QuarkNet**

# Center Resources & Costs

## Mentors

>100 physicists with lead teachers run centers, work with staff to develop local programs, supervise teachers (and students) in HEP research.

- **No cost to the program**

## Teachers

Teacher stipends for summer programs at each at the QuarkNet centers; 24 teachers for a one-week experience at Data Camp; teachers at any new centers hold seven-week research internship.

- **\$214,500 for stipends and travel**  
**(\$12k from this NSF proposal, the rest from CMS and ATLAS funding)**



## Other Costs

### Travel

Staff teacher trips to support centers and summer institutes, workshops, meetings, conferences

- **\$50,000**

### Cosmic Watches

Fabrication of 48 cosmic watches per year

- **\$13,000**

### Computing support

Maintenance and upgrades of program website, maintenance of servers at Notre Dame

- **\$26,000**



# Indirect Cost

## Indirect Cost

Special project rate of 32%, participant support and equipment are exempt from indirect cost

- **\$166,099**