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Subject: Budget Justification
Date: Mon, 19 Jun 2017 14:30:04 +0000

Budget Justification: Personnel

PI: Erik Viirre (49%)	150	150
Optical Engineer 1:	175	175
Data Equipment Engineer 1:	150	150
Analyst 1:	150	150
Technician	100	100
Administrator	100	100
Consultants (TAF + QM yr 2)	100	200
Code Breaker	50	100

ESV

Dr. Viirre will be the project principal investigator. He will be responsible for the results, for developing the team and in collaboration with Dr. Furness (co-principal investigator) and trusted advisors, for the scientific direction and reporting of the project.

Optical Engineer

A senior optical engineer will be responsible for optical configuration of the experiments including sensors, filters, optical alignments and validation of the measurement results. They will be responsible for optical controls, including light management and thermal influences. In year 2 of the project, if the technology becomes necessary, the engineer will be responsible for development, installation and measurement of quantum entangled photon systems.

Data Engineer

A senior engineer will be responsible for the experiment data configurations: controls of light, visual stimuli, data capture from systems, eye movement recording systems and human responders. They will be responsible for data configuration, archiving and quality assurance.

Analyst

An expert data analyst will be responsible for data capture, analysis and presentation for review. As the project progresses, they will be responsible for real-time demonstration of the data events. They will understand the

experiment paradigm and ensure valid review of results.

Technician

A technician with appropriate electronics and mechanical experience will assist the engineering staff and be responsible for project components, inventory and upkeep. They will be available during human testing for proper operation of equipment.

Admin

An administrator will be responsible for project operations, fund management, HR and human subjects experiment management. They will be appropriately IRB certified and will be responsible for all human subjects documentation. They will manage human subjects recruitment and experiment participation.

TAF

Dr. Furness will be the project co-Principal Investigator with Dr. Viirre. He will help design and review all experimental protocols and will assist in design and review of all engineering systems for the project. He will be responsible for review of scientific results.

Quantum Mechanics Consultant

In year 2 of the project, when Quantum entangled experiments will be executed, the project will engage a consultant for QM research, to ensure valid and appropriate experimental design and technology

Codebreaker

To assist the Data Analyst, a "Codebreaker" will be engaged as a consultant for design of experimental signal detection paradigms. The Codebreaker will ensure review of all plausible signal configurations as data is captured.

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