

BUDGET JUSTIFICATION (TOTAL BUDGET \$217,063)**PERSONNEL (\$80,534)**

Salaries for all personnel are based upon current University of Florida academic and staff salary scales. All personnel budget calculations include salary range adjustments and merit increases as applicable for each year of support in accordance with published University guidelines.

Three months of salary is requested for Dr. Casanova in each year of this project. Dr. Casanova will develop the sensor design, primarily the electromagnetic and mechanical aspects. One half month of salary is requested each year for Dr. Yoon, who will supervise a graduate student at 6 months per year. Dr. Yoon and his student will work on the microfabrication process for the sensor.

FRINGE BENEFITS (\$17,702)

Employee benefits are directly charged as a percentage of salaries and wages. The rate used for summer salary for faculty is 27.4% plus exact monthly health insurance. The rate used for graduate research assistants is 10.20% plus average monthly health insurance. The rate used for undergraduate students is 0.6%.

TRAVEL (\$7,000)

Trips to engineering conferences to disseminate research results.

OTHER DIRECT COSTS (\$29,500)**Materials and Supplies**

\$27000 is requested for lab supplies including electronic components for circuit fabrication and test purposes, cables, and printed circuit boards, and costs associated with access and materials for the microfabrication.

Publication

\$2500 is requested for publication costs.

OVERHEAD (\$70,964)

IDC is charged at the approved rate of 52.5% of the Modified Total Direct Costs (MTDC.) MTDC excludes equipment costs (items costing \$5,000 or more,) graduate student tuition and fee remission, participant support costs, and the amount of each subaward over \$25,000.