**University of Maryland**

**Budget Justification**

**Senior/Key Personnel**

The principal investigator (PI, Dr. Testudo), will plan and oversee all aspects of the proposed research. 1.25 summer months of PI effort every year is requested, based on the current 12-month base salary $198,500.

CoPI – Dr. Jones, will work on xxxx…. 0.5 summer month of effort every year is requested, based on the current 12-month base salary $175,000.

**Other Personnel**

Postdoctoral Associate: TBD, 12 calendar month of his effort every year is requested, based on an annual salary of $65,000. List all of the individual’s responsibilities.

Graduate Research Assistant (GRA): TBD, 12 calendar months of the GRA effort every year is requested, based on FY23 standard rate in Engineering School for a Step II GRA, which is an annual salary of $41,253. This graduate student will work closely with the PI, conducting and interpreting all data collected, as well as write up the findings for publication.

Undergraduate research assistants: A total of 3 paid undergraduate research assistants (TBD) will work 200 hours, with a rate of $20/hour. The undergraduate research assistant will list responsibilities.

5% of merit and COLA increase for every personnel is included in Year 2-5.

 **Fringe Benefits**

Fringe benefits include health insurance, FICA, unemployment, workers’ compensation, retirement, terminal leave payout and employee assistance. Amounts for the sponsor’s contribution to employee fringe benefits are calculated using UMD’s U.S. Department of Health and Human Services (DHHS) approved Fringe Benefit Rates effective July 1, 2022. The approved rates are as follows: 29.9% for Faculty of Academic month effort, 35.6% for Staff, 27% for Graduate Assistant and 7.6% for Faculty of Summer Month effort and hourly students. Tuition Remission is a UMD fringe benefit but is not included in the fringe calculation and is budgeted separately as applicable. Additional information about fringe benefits can be found at: <https://ora.umd.edu/resources/benefits-stipends>

The Fringe Benefit Rate Agreement can be found at: <https://ora.umd.edu/resources/fa>

Fringe rates could be adjusted in future years.

**Travel**

Funding is requested for domestic travel for the PI, Co-PIs, postdoc, and GRAs to attend annual meetings and conferences or seminars to present their research. Typical domestic meetings include NSF CRCNS Program, and conferences BIOCAS, EMBC, ICASSP, and ISCAS.

If trip detailed budget is needed, (Include destination of trip (s) and describe estimated costs per item. For example: registration ($400/person), round trip airfare ($400/person), lodging ($175 lodging per night for 3 rooms for four nights), and food ($63 per diem per day for five days).

 **Other Direct Costs**

**Materials and Supplies**

Funds are budgeted at $xxxxx each year for x years. Funds are requested for all of the consumable supplies needed to complete the proposed experiments. The larger expenses are itemized below.

* List larger expenses, including a description, and estimated cost.

**Publication Costs**

Funds are requested each year of the grant to partially defray some of the publication costs (page charges, color illustrations, open access fees) for publishing manuscripts in major, peer reviewed journals.

**Information Technology**

Funds are requested each year to cover the cost of data storage (1-2 TB/year) on the University of Maryland’s server (generator backup; backups and offsite storage; server maintenance are all included).

**Subawards**

Sub 1 – University of XXX will be a subcontract. Its detailed budget and justification are separately listed under Subaward Budget Section.

**Tuition Remission**

Tuition remission is part of the fringe benefits package for UMD employees including graduate research assistants. FY23 UMD Graduate School tuition for a step II GRA is $16,238/year (average of 20 credits, $811.90 per credit), $2,648/year for Step III GRA. 5% increases are anticipated in each subsequent year.

**Indirect Costs (F&A)**

The indirect cost rate for on-campus organized research is 56% of the Modified Total Direct Costs (MTDC) base, which is the Total Direct Costs excluding tuition remission, equipment, rental costs of off-campus facilities, and the portion of individual subcontracts over $25,000. This rate has been approved by the cognizant government agency, Department of Health and Human Services. This rate was approved on June 23, 2022.

 For DoD Contracts please include the following language in your budget justification:

“In accordance with DFARS 231.303 UMD has used its uncapped DOD F&A rate to calculate the budget. Should the DoD Agency decide to award UMD a grant or cooperative agreement instead of a contract, UMD will revise our budget to adjust the F&A rate to the capped Organized Research rate in accordance with 2 CFR 200.”