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| **Fiscal Year:** | FY 2016 | **Task Last Updated:** | FY 01/26/2016 |
| **PI Name:** | Burns, Vanessa B.S. | | |
| **Project Title:** | LumosTech Smart Sleep Mask for Circadian Realignment in Space and on Earth | | |
| **Division Name:** | Human Research | | |
| **Program/Discipline:** | | | |
| **Program/Discipline--Element/Subdiscipline:** | NSBRI--Human Factors and Performance Team | | |
| **Joint Agency Name:** | | **TechPort:** | Yes |
| **Human Research Program Elements:** | (1) **HFBP**:Human Factors & Behavioral Performance (IRP Rev H) | | |
| **Human Research Program Risks:** | (1) **Sleep**:Risk of Performance Decrements and Adverse Health Outcomes Resulting from Sleep Loss, Circadian Desynchronization, and Work Overload (IRP Rev F) | | |
| **Space Biology Element:** | None | | |
| **Space Biology Cross-Element Discipline:** | None | | |
| **Space Biology Special Category:** | None | | |
| **PI Email:** | vanessa@lumostech.co | **Fax:** | FY |
| **PI Organization Type:** | INDUSTRY | **Phone:** | 626-200-9074 |
| **Organization Name:** | LumosTech, Inc. | | |
| **PI Address 1:** | 350 Glenview Dr | | |
| **PI Address 2:** | Apt 1 | | |
| **PI Web Page:** | | | |
| **City:** | San Francisco | **State:** | CA |
| **Zip Code:** | 94131 | **Congressional District:** | 12 |
| **Comments:** | | | |
| **Project Type:** | GROUND | **Solicitation:** | NSBRI-RFA-SMARTCAP |
| **Start Date:** | 12/01/2015 | **End Date:** | 11/30/2016 |
| **No. of Post Docs:** | | **No. of PhD Degrees:** | |
| **No. of PhD Candidates:** | | **No. of Master' Degrees:** | |
| **No. of Master's Candidates:** | | **No. of Bachelor's Degrees:** | |
| **No. of Bachelor's Candidates:** | | **Monitoring Center:** | NSBRI |
| **Contact Monitor:** | | **Contact Phone:** | |
| **Contact Email:** | | | |
| **Flight Program:** | | | |
| **Flight Assignment:** | | | |
| **Key Personnel Changes/Previous PI:** | | | |
| **COI Name (Institution):** | | | |
| **Grant/Contract No.:** | NCC 9-58-HFP00005 | | |
| **Performance Goal No.:** | | | |
| **Performance Goal Text:** | | | |
| **Task Description:** | The primary objective for LumosTech is to develop and commercialize the LumosTech smart sleep mask, a wearable device to monitor an individual's circadian phase and rapidly realign the circadian rhythm of the user to their local environment. With this technology, we can help astronauts optimize their sleep schedules in the absence of natural light, assist ground crew adjusting to work-related sleep changes, and increase alertness after wake-up. | | |
| **Rationale for HRP Directed Research:** | | | |
| **Research Impact/Earth Benefits:** | | | |

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| **Task Progress:** | New project for FY2016. |
| **Bibliography Type:** | Description: (Last Updated: ) |