

March 20, 2019

Dr. Patrick O. Bradshaw
Air Force Office of Scientific Research
Arlington, VA 20598

Dear Dr. Bradshaw,

I am writing to determine if my client would be eligible for your program, and if you would consider their research responsive to AFOSR's objective of improving human capabilities through advanced human-machine interfaces.

In summary, my client has developed a working brain-computer interface that could be leveraged to improve reaction times, focus, memory, learning, and performance under stress; to verify information transmission between machines and human operators; and to rehabilitate loss of motor function. Their current system responds to user intentions in real time by applying machine learning algorithms to EEG control signals acquired with a non-invasive headset, and they have demonstrated proof-of-concept through a video game controlled by only the user's mind, with no hand or voice activation.

My client is now looking to advance their analytical tools and the associated hardware to better understand how cognitive functions could be modulated using different stimuli. Their laboratory is organized to explore different research directions in response to the most pressing needs of potential funders, and they could target particular cognitive or emotional processes that may be under-represented in the current AFOSR portfolio.

One key eligibility consideration is that my client is a small business and is not affiliated with an academic institution, and to achieve any of the objectives above, they will need to acquire more data from a larger set of human subjects. We are particularly concerned that lack of access to an institutional review board may be a disqualifying factor.

Another concern is that my client is looking for approximately \$2M/year for the next two to five years, and we wonder what the upper limit is on what we could reasonably request from your program.

If you have any questions, please feel free to contact me by email or phone. Thank you very much for your time and consideration.

Best regards,

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