

Council for Development of Cognitive Technologies

In the Name of God

Funding Opportunity Title:

Design and Development of Brain-Computer Interfaces

Introduction:

The Vice-Presidency for Science, Technology, and Knowledge-Based Economy Affairs (ISTI) of Iran, in partnership with the Cognitive Science and Technology Council (CSTC) and The Mustafa Prize Investment and Endowment Fund (MPIEF), are announcing call for collaborative research projects. This opportunity is open to Iranian researchers affiliated with higher education or research institutions and distinguished Muslim researchers from high-ranked universities worldwide. The focus of this call for proposal is to design Brain-Computer Interfaces (BCI) for research studies and applications developments.

Goals and Research Themes:

The primary objective of this research call is to foster and enhance interdisciplinary collaboration among Iranian and global Muslim researchers in the field of BCI studies and applications. It also aims to facilitate knowledge transfer and the development of cognitive services and tools for Islamic nations. Research proposals related to the design and implementation of neural recording and stimulation tools, circuits, and systems, wireless bidirectional communication systems, signal processing circuits and systems, as well as the development of signal processing algorithms for BCI systems are welcomed. Research themes include but not limited to:

- ✓ Development of BCIs for specific applications:
 - Cognitive Rehabilitation
 - Treatment of cognitive diseases/disorders
 - Wetware and animal brain control
- ✓ Provision of general cognitive services:
 - Cognitive enhancement
 - Designing neural prostheses

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- ✓ Designing systems as general tools for conducting research in cognitive science and neuroscience fields

Funding Details:

- ✓ Selected projects will receive joint funding from ISTI and CSTC of 10,000 USD.
- ✓ MPIEF will also fund projects with an additional 10,000 USD.
- ✓ The funding period for projects is one year, with the possibility of a 3-month extension without extra funding.

Researchers interested in this funding opportunity are encouraged to prepare research proposals in line with the specified research themes and sub-topics. This call for proposal aims to support innovative research in the field of Brain-Computer Interfaces and promote collaboration among researchers in the Islamic world and beyond.