

**Yildiz Technical University**

**Scientific Research Projects (SRP) Coordination Unit**

**Call for Projects**

1. **Call Code**

**IRP- MEDICAL\_BIOTECHNOLOGY-2022-1**

1. **Call Title**

**Innovative Solutions in Medical Biotechnology**

**3. Subject of the Call and General Framework**

Biotechnology is an interdisciplinary science that has strategic importance for our future. With the COVID-19 pandemic that emerged as of the end of 2019, the importance of biotechnology has become more evident. This situation has made Medical Biotechnology not only a rising economic trend, but also a technology with a strategic priority. This situation has made Medical Biotechnology not only a rising economic trend, but also a technology with a strategic priority. It is important to produce technology in critical areas that aim to achieve technological transformation in high priority sectors and that are expected to create high added value as well as developing adaptability. The goal of preventing, diagnosing, monitoring and treating diseases by developing new knowledge and innovative solutions to improve and protect human health and well-being is the main focus of international and national Medical Biotechnology project support programs. As stated in the Eleventh Development Plan (2019-2023) of the Presidency of the Turkish Presidency of Strategy and Budget, objectives such as the preparation of development roadmaps in some critical technology areas, strengthening the research infrastructures of universities and meeting the needs of R&D studies for these technologies and developing the necessary qualified human resources and focusing the social orientation on these areas have been set in order to fulfill the National Technology Move in our country. In parallel with our country's 2023 vision, our university has defined its vision in Medical Biotechnology and determined its roadmap. In line with this vision, it is aimed to reduce foreign dependency through the development of processes in Medical Biotechnology, the development, production and commercialization of products with high added value.

**4. Aims and Goals**

The main goal of this call is to develop research studies that are preliminary studies in Medical Biotechnology, which are defined as high priority to research at our university, especially for applications to international support programs. In addition to contributing to human health and welfare, it is aimed to contribute to the internationalization-oriented vision of our institution by developing the competencies of our university in Medical Biotechnology via the projects to be funded, and to increase the international competitiveness of our country in Medical Biotechnology.

For these purposes, it is expected to be focused on the following six general categories;

• Diagnosis, treatment and translational medicine

• Virology, microbiology and immunology

• Functional nano and biomaterials

• Biomedical Devices and Artificial Intelligence Technologies

• Molecular biology, bioinformatics, and cancer

• Tissue engineering

**5. Call Calendar**

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| **Call Opening Date:** | **07/03/2022** |
| **Call Closing Date:** | **15/04/2022** |