

2024–2025 ACADEMIC YEAR
INDUSTRY INNOVATION
AND INFRASTRUCTURE REPORT
SDG 9

ISTINYE UNIVERSITY

İSÜ İSTİNYE ÜNİVERSİTESİ İSTANBUL

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ABOUT US

Our Mission

Istinye University's mission is to provide innovative and sustainable education in a student centred institution working closely with industry; to conduct research based on advanced technology; to produce new knowledge and technologies; and to contribute to society by developing solutions to local and global problems.

Our Vision

Istinye University's vision is to become one of the world's leading universities pursuing excellence in education, research, innovation and technology development, with artificial intelligence at its centre.

Our Values

- Respect for people and differences
- Commitment to professional ethics and human values
- Social and community responsibility
- Justice and merit
- Environmental awareness and sustainability
- Lifelong learning
- Collective wisdom
- Participation
- Innovation
- Entrepreneurship
- Leadership

Source: [1] Mission and Vision

APPLICATION AND RESEARCH CENTRES

International Sustainability Application and Research Centre

ISU-IRCOS addresses sustainability through governance, economic and cultural dimensions alongside environmental and social responsibility. It supports interdisciplinary research and education. Its focus areas include the circular economy, natural capital use, institutional processes and regional sustainable development policies.

Source: [2] International Sustainability Application and Research Centre

Scientific and Technological Research Application and Research Centre

CoreLab, within the Scientific and Technological Research Application and Research Centre (BİTAM), provides research and analysis infrastructure equipped with advanced instruments. Scientists from different disciplines and industrial organisations can access analytical and chemical analysis services.

Source: [3] Scientific and Technological Research Application and Research Centre

Research and Analysis Services

CoreLab works with the University's research units and provides technical infrastructure for research projects. Application forms, sample acceptance conditions, procedures and equipment information support access to its services. This structure helps connect scientific research with industry's analysis needs.

Source: [4] Central Laboratory CoreLab

ENTREPRENEURSHIP AND INCUBATION CENTRE

Istinye Garage Incubation Hub supports students and academics from idea development to company formation and scaling. Training, mentoring, office facilities and access to professional networks are among its services for developing innovative ideas.

Source: [5] Istinye Garage Incubation Hub

Pre-incubation Support

The Garage Pre-incubation Programme prepares business ideas for company formation. Innovative ventures are assessed for originality, differentiation, growth and efficiency potential. Entrepreneurship training and access to expert mentors support the development of business models.

Source: [6] Garage Pre-incubation Programme

Academic Entrepreneurship

The Garage Academic Incubation Programme focuses on turning academic knowledge into commercial value. It provides training, mentoring, product and business development, investor meetings, cooperation opportunities and company formation support. Connecting research experience with entrepreneurship supports the creation of economic and social value.

Source: [7] Garage Academic Incubation Programme



An illustration of entrepreneurship and innovation.

INFRASTRUCTURE SUPPORT

Istinye University's research centres, laboratories and workshops support advanced technology research and practical education. These environments enable interdisciplinary collaboration and provide an institutional basis for developing and applying scientific knowledge.

Source: [8] Research Centres · [9] Research Laboratories

Access to Research Infrastructure

Laboratory and analysis services support experimental work and research project development. Technology Transfer Office project and cooperation services, together with incubation opportunities, connect research infrastructure with technology development and entrepreneurship.

Source: [4] Central Laboratory CoreLab · [10] Technology Transfer Office



A view of the University's practical education and research environment.

INTELLECTUAL PROPERTY AND COMMERCIALISATION

Intellectual Property and Patent Services

The Intellectual and Industrial Property Rights and Commercialisation Office provides technical support to academics, entrepreneurs and students in invention assessment, application follow-up, contract management and licensing. Its services also include national and international patent application support, patent and utility model valuation, and awareness training.

Source: [11] Intellectual Property and Patent Services

Patent and Technology Portfolio

The publicly available Patent and Technology Portfolio introduces technologies developed at the University and their potential applications. It supports the visibility of research outputs and the sharing of commercialisation opportunities.

Source: [12] Patent and Technology Portfolio

Knowledge Sharing on Intellectual Property

The Technology Transfer Office announced the World Intellectual Property Day WIPO Commemoration Event planned for 22 April 2025 at Istanbul University's Beyazıt Campus.

The Industrial Property Week Event was announced for 29 April 2025 at the Vadi Campus H Block Conference Hall. These programmes supported access to information on intellectual property.

Source: [13] World Intellectual Property Day WIPO Commemoration Event · [14] Industrial Property Week Event

TEKNOFEST

On 24 January 2025, the University shared the application call for the TEKNOFEST 2025 technology competitions. Technology competitions support students' project development experience and their interaction with the innovation ecosystem.

Source: [15] TEKNOFEST 2025 Technology Competitions Application Announcement

An Innovative Solution to Stubble Fires

Students from the Quantum Dynamics Club won second place in the TEKNOFEST Northern Cyprus finals, held on 1–4 May 2025, with their project Early Detection and Response to Stubble Fires and Soil Protection Using an Unmanned Aerial Vehicle. The project brought image processing and unmanned aerial vehicle technology together for early fire detection and soil protection.



The student team at the TEKNOFEST 2025 Northern Cyprus finals.

Source: [16] Student Achievement at TEKNOFEST 2025 Northern Cyprus · [17] TEKNOFEST Northern Cyprus 1–4 May 2025

INNOVATION AND DIGITAL SKILLS

SAS Powered Data Science Programme

Announced for 15 January 2025, the launch of the SAS Powered Data Science Programme by Istinye University focused on interaction between the University and the technology ecosystem. It aimed to share information on data analytics and data science education.

Source: [18] Launch of the SAS Powered Data Science Programme

DatamedX Hackathon

Announced for 23–25 May 2025, DatamedX Hackathon was designed for high school students with a focus on health technologies and practical problem-solving. It aimed to enable young people with different interests to develop solutions together and gain technology development experience.

Source: [19] DatamedX Hackathon for High School Students



Announcement images for the data science programme and DatamedX Hackathon.

INDUSTRY AND INNOVATION EVENTS

Scientific meetings, technical training, industry visits and technology development programmes support interaction between research, practical application and industry.

Date or Period	Event	Source
03–06.09.2024	2nd General Meeting of COST Action COSMIC WISPers CA21106	Announcement
05–07.09.2024	3rd International Nanotech Eurasia Conference	Announcement
05.09.2024	Cosmic WISPers Public Talk	Announcement
28.09.2024	The Impact of AI on Cinema	Announcement
30.09.2024	Artificial Intelligence in Medicine: Challenges and Opportunities	Announcement
17–18.10.2024	22nd International Logistics and Supply Chain Congress	Announcement
18–19.10.2024	6th Mediterranean Conference on Pattern Recognition and Artificial Intelligence MedPRAI24	Announcement
November 2024	IT Month Celebration	News
November 2024	C++ Workshop 1	News
November 2024	Using Artificial Intelligence Tools	News
November 2024	MATLAB Training	News
November 2024	Visit to SAHA EXPO	News
November 2024	Visit to BIOEXPO	News
November 2024	Building Information Modelling BIM	News
November 2024	Fanuc CNC Workshop	News
November 2024	Embedded Software Workshop	News
03.11.2024	Creepy Game Jam	News
06–11.11.2024	TÜBİTAK Project Writing Workshops	Announcement
08.11.2024	Science Award Ceremony	Announcement
10.11.2024	Road Map of Developer	News
11.11.2024	Exploring XR	News
12.11.2024	C++ Workshop 2	News
13.11.2024	An E-commerce Journey	Announcement

Date or Period	Event	Source
13.11.2024	IT Summit	News
13.11.2024	Figes MATLAB Training EMK Academy Season 2	News
21.11.2024	Cloud Data and Artificial Intelligence Training	News
21.11.2024	Videogame Urbanism Seminar Series 2 Archaic Game Studio and Urban Jam	News
22.11.2024	Energy Storage in Modern Rail Vehicles and MATLAB/Simulink Training	News
22.11.2024	Electronics Laboratory Training	News
23.11.2024	Advanced Cardiovascular Solutions ACS24	Announcement
28.11.2024	Sustainability and Lean Healthcare Symposium 2024	Announcement
30.11.2024	Commemorating and Understanding Scientists on 30 November	Announcement
30.11–01.12.2024	Particle Accelerators and Detectors: Local Infrastructure and R&D Workshop	Announcement
03.12.2024	TÜSEB Technical Training	News
04.12.2024	Crossing Boundaries: Gender Dynamics in STEM Representations in Turkish Netflix Series	Announcement
04.12.2024	Modular Approaches to Preserving Cultural Heritage: TÜBİTAK 2209-B	Announcement
06.12.2024	International Civil Aviation Day	News
06.12.2024	Technical Visit to TEPTA Lighting	News
10.12.2024	SmartPro Training Series Part 1 Cybersecurity	News
12.12.2024	TechTalk 24 Software Summit	News
13.12.2024	Visit to Doğuş Technology Office	News
14.12.2024	Boğaziçi IT Awards	News
15.12.2024	Innovation and Digital Transformation Summit	News
15.12.2024	Game Jam	News
19.12.2024	Trends Shaping the Future	Announcement
19.12.2024	Future of Imaging Boğaziçi University	News
19.12.2024	Future of Imaging Siemens	News

Date or Period	Event	Source
20.12.2024	Graphic Design from Traditional Techniques to AI	Announcement
21.12.2024	Technical Visit to the Robot Investments Summit	News
22.12.2024	5th Analysis Workshop	News
25.12.2024	TÜSEB Project Meeting	News
26.12.2024	An Experience Journey in Technology	Announcement
04.01.2025	Information Training for the Beamline Competition for Schools	Announcement
06.01.2025	Aircraft Poster Exhibition	Announcement
08.01.2025	Istinye University Research Performance	Announcement
09.01.2025	Machine Learning in Healthcare	Announcement
15.01.2025	Launch of the SAS Powered Data Science Programme by Istinye University	Announcement
16.01.2025	Visit to Boğaziçi University Observatory and Biomedical Engineering Laboratories	News
07.02.2025	Technical Work for TÜSEB and TÜBİTAK Projects	News
08.02.2025	Digital Transformation and AI Integration in Healthcare	Announcement
18.02.2025	Cybersecurity, Cryptocurrencies and the Economy in the New World Order	Announcement
18.02.2025	Sport and Media Summit at Istinye University	News
21.02.2025	Philosophy 2: What We Learn from Brain Science, New Science, New Culture, New Academia	Announcement
28.02.2025	The Language of the Brain: Neuroscience and the Art of Communication	Announcement
28.02–02.03.2025	Rio de JAMerio Game Jam Game Design	Announcement
03.03.2025	The Digital Face of Sport: Transformation in Media and Communication	News
05.03.2025	DigitalThink: Share and Shine, Write Your Own Story on Social Media	Announcement
07.03.2025	Digital Intelligence: The Power of AI and Data Science in Shaping Communication	Announcement
12.03.2025	DigitalThink: Taking Part in the Digital World through Influencer Marketing	Announcement

Date or Period	Event	Source
12.03.2025	RTC Projections 2: Digital Platforms and Changing Audience Culture	Announcement
12.03.2025	Software Diaries 2	News
13.03.2025	Designing Research: A Conversation with KONDA General Manager Aydın Erdem	Announcement
14.03.2025	Development and Transformation in Organisational Communication: Neuroscience and AI	Announcement
14, 18.03.2025	AgeSA Future IT Leaders	Announcement
17.03.2025	Interior Design Programme End-of-Autumn-term Student Exhibition	Announcement
19.03.2025	Sustainable Textile Design with Gönül Paksoy	Announcement
20.03.2025	A Robot Teammate	Announcement
21.03.2025	The Future of Corporate Communication: The Impact of Neuroscience and Artificial Intelligence	Announcement
25.03.2025	Anatomy Education with VR Cadavers and Surgical Simulations	Announcement
26.03.2025	How Have LinkedIn and Instagram Changed the Game in Human Resources?	Announcement
26.03.2025	The Social Production of Virtual Space on Social VR Platforms	Announcement
28.03.2025	From Emotions to Data: Neuroscience and Artificial Intelligence in Marketing Communication	Announcement
10.04.2025	Social, Psychological and Educational Design Principles in XR-based Learning: English Session	Announcement
15.04.2025	Neuromarketing Case Studies	News
15.04.2025	RTC Projections 3: From Al-bait al Muzlim to Waliczky's Imaginary Cameras Rethinking the Apparatus	Institutional record
16.04.2025	Social, Psychological and Educational Design Principles in XR-based Learning: Turkish Session	Announcement
17.04.2025	Digital Algorithms in a Changing World	News
17.04.2025	Artificial Intelligence and Change Management	Announcement
18.04.2025	Digital Human Resources Management and Artificial Intelligence	News
18.04.2025	Technical Visit to Legrand Gebze Factory	News
22.04.2025	World Intellectual Property Day WIPO Commemoration Event	Announcement

Date or Period	Event	Source
28.04.2025	Virtual Worlds: Governance and Higher Education	Announcement
28.04.2025	Audio Technology, Sound Design and the Development of Radio Broadcasting	Announcement
29.04.2025	Industrial Property Week Event	Announcement
May 2025	Robotics and Coding Training	News
02.05.2025	From NeuroLab to Marketing Communication: Practical EEG and Eye-tracking Workshop	Announcement
02.05.2025	Istinye Technology Summit 2025	News
07.05.2025	Think Digital: Turning Passion into Work and Digital Authenticity	Announcement
08.05.2025	XR the Body and Embodiment	Announcement
09–11.05.2025	IFTE 2025 Istanbul Flight Training Exhibition	Announcement
12.05.2025	Social Media Summit	News
23.05.2025	Atypical Haemolytic Uraemic Syndrome Update Symposium and National aHUS Registry Expert Workshop	Announcement
23–25.05.2025	DatamedX Hackathon for High School Students	Announcement
28.05.2025	Sustainable Future Summit	Announcement
02.06.2025	Hybrid Publishing and Hybrid Journalism	Announcement
28.06.2025	Science Café: Radiation at the Right Dose in the Service of Health	Announcement
09.07.2025	Basic AI Use in Migration Studies	Announcement
24.07.2025	Enterprise Azerbaijan StartUp School Introduction Meeting	Announcement
24.07.2025	TÜBİTAK ARDEB 1002 Support Module Training and Workshop	Announcement

PROJECTS

Academic Projects

Funding Institution	Programme or Call	Project Title
TÜBİTAK	Career Development Programme	Development of an Augmented Reality Simulation and Wind Flow Interaction Platform
TÜBİTAK	Scientific and Technological Research Projects Funding Programme	Measurement of the Average Magnetic Field in a Particle Accelerator Beamline Using K-modulation
EU	Widening Fellowships (H2020-WF-2018-2020)	NeuroVascularHealth Deriving Novel Micro Biomechanical Indices Based on Clinical Imaging and Computational Simulation Data and Machine Learning Analysis for Assessment of Cerebrovascular and Cognitive Health
TÜBİTAK	Scientific and Technological Research Projects Funding Programme	The Effects of Next-generation Functional Nanoparticles on the Performance and Interfacial Adhesion of Polyamide 11 and Hemp Fibre Biocomposites
TÜBİTAK	Short Term R&D Funding Programme	Investigation of the Efficacy of Novel Osimertinib-like Indole-derived Dual Src/EGFR Kinase Inhibitors in EGFR T790M Cell Lines Using Two- and Three-dimensional Cell Models
TÜBİTAK	Scientific and Technological Research Projects Funding Programme	Discovery of Mitofusin Inhibitors through Virtual Screening and Elucidation of Their Biological Mechanisms of Action
TÜBİTAK	Centre of Excellence Support Programme	Value-added Advanced Nanotechnological Materials and Systems for a Sustainable Circular Economy LignoNANO
TÜSEB	Group B R&D Project Call	Development of a 3D Cardiac Patch Using a Bioink Containing Decellularised Bovine Pericardium, Silk Fibroin and Nanogold through Three-dimensional Bioprinting
TÜBİTAK	Scientific and Technological Research Projects Funding Programme	Development of a Robotic Physical Assistance System with an Innovative Pneumatically Driven Soft External Elbow Exoskeleton
TÜSEB	Group B R&D Project Call	Investigation of the Effects of Virtual Reality-supported Dual Task Training on Cerebral, Peripheral and Respiratory Muscle Oxygenation in Patients with Chronic Obstructive Pulmonary Disease
TÜBİTAK	Domestic Postdoctoral Research Fellowship Programme	Production of Bacterial Nanocellulose from Waste Using Novel Strategies

Funding Institution	Programme or Call	Project Title
TÜBİTAK	Connecting and Coordinating European Research and Technology Development with Japan	Machine Learning-driven Bottom-up Design of Atomically Layered Heterostructures for Green H2 Production
TÜBİTAK	2023 JOINT CALL FOR PROPOSALS OF SCIENCE AND TECHNOLOGY, INNOVATION (STI) IN THE THEMATIC AREAS OF CLEAN, ACCESSIBLE, AND SECURE ENERGY SUPPLY	Circular Economy for Waste-to-energy Conversion: Transforming Local Plastic Waste into Multifunctional Catalysts for Green H2 Production
TÜBİTAK	Scientific and Technological Research Projects Funding Programme	Highly Accurate and Sensitive Determination of Active Pharmaceutical Ingredients and Their Metabolites in Environmental and Biological Samples from Horseshoe Island Using LC-MS/MS Combined with Novel Preconcentration Methods
TÜBİTAK	Career Development Programme	Synthesis of Innovative Bismuth Sulphide-based Magnetic Nanocomposites and Their Use in Heavy Metal Determination by Flame Atomic Absorption Spectrometry
TÜSEB	Group A R&D Project Call	Saturation Monitor and Software for Automatic Control of Oxygen Flow
TÜSEB	Group B R&D Project Call	Development of a Next-generation Hybrid Gamma Probe Integrating Counting and Emission Direction Detection
TÜBİTAK	Scientific and Technological Research Projects Funding Programme	Development of a Neutron Interaction Model with a Gadolinium-doped Water Cherenkov Detector
TÜBİTAK	Scientific and Technological Research Projects Funding Programme	Investigation of the Potential of Scintillation Powders and Optical Media for Cosmic Neutron Detection
TÜBİTAK	National New Ideas and Products Research Support Programme	Production and Characterisation of Plastic Scintillators Doped with Lithium Tetraborate Nanoparticles
TENMAK	TENMAK CERN Projects Support Programme	Data Acquisition and Analysis and Operation, Maintenance and Upgrade of Detector Systems in the ATLAS Experiment
TÜBİTAK	Bilateral Cooperation Programme with the US National Science Foundation	Preparation and Applications of Iron-based Catalysts for Amide Reduction
Erasmus+	Cooperation Partnerships in School Education	Virtual Physics Laboratory Applications

Funding Institution	Programme or Call	Project Title
EU	ERA-Net Smart Energy Systems Enerdigit Joint Call	An AI-based Cognitive Platform for Smart Renewable Energy Management (CASREM)
TÜBİTAK	ERA-NET Digitalisation of Energy Systems and Networks EnerDigit	An AI-based Cognitive Platform for Smart Renewable Energy Management (CASREM)
TÜBİTAK	Scientific and Technological Research Projects Funding Programme	MeV Electron Accelerator Design Software
TÜBİTAK	Scientific and Technological Research Projects Funding Programme	Development of a Theranostic Hyperthermia Treatment for HER2-positive Breast Cancer
TÜBİTAK	TÜBİTAK SME R&D Start Up Support Programme	Development of an Electroactive Biopolymer and Bioink for Tissue Engineering Applications
TÜBİTAK	Green Innovation Technology Mentoring Call	ÜSİMP Green Transformation Platform
TÜBİTAK	TÜBİTAK Industrial R&D Projects Support Programme	Supporting Marketplace Growth by Reducing Product, Category and Subcategory Problems through a Heuristic Artificial Intelligence Model
TÜBİTAK	TÜBİTAK Industrial R&D Projects Support Programme	Web-based Development of Medical Microbiology Experiments Using Virtual Reality with Multiuser and Report Analysis Integration
TÜBİTAK	TÜBİTAK SME R&D Start Up Support Programme	GLP-compliant ERP Management Software for Clinical Research, Testing and Analysis Centres
TÜBİTAK	TÜBİTAK SME R&D Start Up Support Programme	Development of Artificial Intelligence E-commerce Analytics Agents Using Large Language Models
TÜBİTAK	TÜBİTAK Industrial R&D Projects Support Programme	Development of a Portable Handheld Electrospinning Device and Biomaterial Integrated System
TÜBİTAK	TÜBİTAK SME R&D Start Up Support Programme	Development of a Domestic TP-PCR Diagnostic Kit for Trinucleotide Repeat Disorders
TÜBİTAK	TÜBİTAK International Industrial R&D Projects Support Programme	PHRESH Patient Health Response in Emergent and Secure Habitats for Connected Healthcare
TÜBİTAK	University-Industry Cooperation Support Programme	Production of Pressure-sensitive Adhesive Polymers through Synthesis of Bio-based Butyl Acrylate Monomer and Its Use in Emulsion Polymerisation
TÜBİTAK	TÜBİTAK Industrial R&D Projects Support Programme	Development of a Handheld Bioprinter Capable of Coaxial Printing for Tissue Engineering Applications

Funding Institution	Programme or Call	Project Title
TÜBİTAK	1501-2024-2	Improving Patient Safety and Operational Efficiency through a Broadband Radio Frequency Identification-based Drug and Medical Equipment Tracking System
TÜBİTAK	Short Term R&D Funding Programme	A Machine Learning-based Risk Prediction System for Coronary Artery Bypass Operations
TÜSEB	Group A Emergency R&D Call	Investigation of the Effectiveness of Motor Imagery and Virtual Reality during Immobilisation after Hand Surgery: A Good Practice Proposal for Clinical Decision Making in Hand Rehabilitation
TÜSEB	Group A Emergency R&D Call	Investigation of the Effects of Exercise Performed with a Virtual Reality Avatar on Muscle Activation in Individuals with Knee Osteoarthritis
TENMAK	—	Data Acquisition, Data Analysis and Operation, Maintenance and Upgrade of Detector Systems in the CERN ATLAS Experiment
TÜBİTAK	TÜBİTAK SME R&D Start Up Support Programme	The Digital Management Platform as a Future Solution for Transforming Healthcare Organisations: Development of AI-based Budget Planning, Cost Analysis and Smart Pricing Modules
TÜBİTAK	TÜBİTAK Industrial R&D Projects Support Programme	The Digital Management Platform as a Future Solution for Transforming Healthcare Organisations: Operational Process Optimisation and Clinical Decision Support System
Republic of Türkiye Ministry of Culture and Tourism	Event and Project Support	Change in the Age of Artificial Intelligence Cinema and Beyond 1 and 2
TÜBİTAK	TÜBİTAK Industrial R&D Projects Support Programme	Development of a Hybrid Energy Generation and Optimisation System for Energy-efficient Buildings
Republic of Türkiye Ministry of Culture and Tourism	Event and Project Support	Artificial Intelligence in the Magical World of Cinema
TÜBİTAK	Career Development Programme	Graph Transformation and Specialised Code Generation for Sparse Lower Triangular Matrix Solving

Funding Institution	Programme or Call	Project Title
TÜBİTAK	Scientific and Technological Research Projects Funding Programme	AI-based Prediction of Adjuvant Treatment Efficacy in Surgically Treated Colorectal Cancer Patients Using Drug Resistance Analyses and Clinical Data
TÜBİTAK	Career Development Programme	Development of Targeted Nanocarriers for the CRISPR/Cas9 System Using Renewable Resources
TÜSEB	Group A Emergency R&D Call	Molecular Modelling, Synthesis and Topoisomerase Enzyme Interaction Studies of 1,3-thiazoline Compounds Derived from Etofenamate
TÜBİTAK	Short Term R&D Funding Programme	Investigation of the Contribution of IKVAV Peptide-functionalised Vegetable Oil-based Hydrogels to Neuronal Differentiation of Human Bone Marrow Mesenchymal Stem Cells
TÜBİTAK	Short Term R&D Funding Programme	Development of a Visual Sensor System Using Molecular Imprinting and Quantum Dot Technology to Detect Misfolded Proteins Excreted in Urine for a Cost-effective Diagnostic and Predictive Test for Preeclampsia
TÜBİTAK	Short Term R&D Funding Programme	Ecological Improvement of Gases Used in Gas-based Particle Detectors
TÜSEB	Group A Emergency R&D Call	Development of a CRISPR-Cas13-based Gene Silencing System and Investigation of Its Efficiency in GFP-transfected Mesenchymal Stem Cells Using Artificial Intelligence
TÜBİTAK	Scientific and Technological Research Projects Funding Programme	Development of Next-generation Injectable DOPA-modified Antibacterial and Haemostatic Surgical Tissue Adhesives to Prevent Air Leaks after Lung Surgery
TÜBİTAK	Short Term R&D Funding Programme	Optimisation of Plasma Electrolytic Polishing Parameters for Additively Manufactured 316L Stainless Steel
TÜBİTAK	Scientific and Technological Research Projects Funding Programme	Identification of Factors Affecting Performance in Wheelchair Basketball Players: Development of a Digital Functional Level Classification System as a Best Practice Classification Model

Source: [20] Technology Transfer Office Academic Project List

Student Projects

TÜBİTAK 2209 Programme 2024/1 Call

Project Title	Funding Institution
Evaluation of the Accuracy, Reproducibility and Readability of ChatGPT-4 Responses to Patient Questions about Oral and Maxillofacial Radiology	TÜBİTAK
University Entry and Exit Using QR Codes	TÜBİTAK
A Health Compass Mobile Application	TÜBİTAK
Learning from Experience: Insights from Experienced Entrepreneurs for a Roadmap for Young Entrepreneurs	TÜBİTAK
The Impact of Digitalisation on International Trade: The Role of E-commerce Platforms in Global Trade and Small Businesses' Access to Overseas Markets through Digitalisation	TÜBİTAK
The Role of Innovative Business Models in Entrepreneurial Success: A Study of Start-up Examples in Türkiye	TÜBİTAK
Women's Labour Force Participation and Economic Growth: An Econometric Analysis for Türkiye	TÜBİTAK
Digital Attendance Project	TÜBİTAK
The Role and Effects of Virtual Production Technologies in the Cinema Industry: Innovative Methods and Future Perspectives	TÜBİTAK
Copyright and Ownership Issues in Digital Artworks	TÜBİTAK
Emotional Effects of AI-generated Art on People	TÜBİTAK
Investigation of Right-wing Authoritarianism and Brain Responses to Violent Stimuli Using EEG	TÜBİTAK
Investigation of the Relationship of AI Literacy with Attitudes and Anxiety towards AI, and the Effects of AI Anxiety on Event-related Brain Potentials	TÜBİTAK
Effects of Temozolomide and Amantadine in Combination on Cell Viability and Death Mechanisms in U87 Glioblastoma Multiforme Cells	TÜBİTAK
A Mobile Application Supporting Sustainability and Providing Material and Emotional Support for Older Adults in Nursing Homes	TÜBİTAK
An AI and Camera-based Alarm System for Pool Safety	TÜBİTAK
An AI-supported Campus Sustainability and Energy Optimisation System Developed with Python	TÜBİTAK
Development of Aloe Vera-containing Dressings for Burn Wounds Using a Handheld 3D Bioprinter	TÜBİTAK

Project Title	Funding Institution
A Bionic Hand with Haptic Sensory Feedback	TÜBİTAK
Simulation-based Scenario Analysis for Improving Efficiency in Public Services	TÜBİTAK
Synthesis, Functionalisation and Polymerisation of Phenyl-based Silsesquioxane Cages	TÜBİTAK
Synthesis of Kenyaite from Recycled Waste Glass and Its Potential Catalytic Applications	TÜBİTAK
Application of the Synthesis of Magadiite, a Layered Silicate Derived from Waste Glass, for Sustainable Energy and the Environment	TÜBİTAK
Development of an AI-based Model for Real-time Detection of Anomalous Network Traffic	TÜBİTAK
A RAG-supported Smart Assistant for Turkish History	TÜBİTAK
Privacy-preserving Breast Cancer Detection Using Federated Learning and U-Net	TÜBİTAK
Agricultural Benefits through the Internet of Things	TÜBİTAK
An Application for Detecting Pedestrians with Disabilities at Traffic Lights Using AI and Image Processing	TÜBİTAK
Defect Detection Using Image Processing	TÜBİTAK
A Qualitative Investigation of Dietitians' Views on the Role of AI in Nutrition	TÜBİTAK
Effects of Smoking on Contact Lens Users and Provision of QR Code-based Information	TÜBİTAK
Development of a Deep Learning-based Model for Schizophrenia Detection Using Functional MRI Data	TÜBİTAK
Investigation of Medical Imaging Techniques Students' Attitudes towards AI Use in Healthcare and Radiology Practice	TÜBİTAK
Investigation of the Effects of Coffee Consumption on Raven's Standard Matrices Test Performance Using Electroencephalography	TÜBİTAK
Forecasting and Analysis of Energy Generation Using Machine Learning and Real-time Sensor Data from Renewable Energy Sources	TÜBİTAK
Modernisation of a Smart Dosimeter for Safe and Traceable Use in Medical Settings Using Sensors and Cloud Computing	TÜBİTAK
An IoT-based AI-supported Lung Health Monitoring System Using Advanced Breath Analysis	TÜBİTAK
An IoT- and Electricity-supported Real-time Environmental Safety and Early Warning System for Sensitive Medical Areas	TÜBİTAK
Development of a Bioimpedance-based Tetrapolar Device for Personalised Hydration Monitoring	TÜBİTAK

Project Title	Funding Institution
Design of a Safe and Effective IoT-integrated UVB LED Phototherapy Device for Vitiligo Treatment	TÜBİTAK
Investigation of Digital Twin Model Implementation in the Warehouses of BSH Home Appliances Industry and Trade Inc.'s Çerkezköy Campus	TÜBİTAK

Source: [21] TÜBİTAK 2209 Student Project List 2024/1 and 2025/1

TÜBİTAK 2209 Programme 2025/1 Call

Project Title	Funding Institution
A Colour Code, Shape and QR-supported Labelling System for Anaesthesia Practice	TÜBİTAK
Use of Generative AI to Analyse Randomly Amplified Polymorphic DNA Fragments from Cells Shed in Urine for Bladder Cancer Diagnosis and Detection of Muscle Invasion	TÜBİTAK
Investigation of the Relationship between Attitudes towards AI, Digital Health Literacy and AI Literacy among Vocational School of Health Services Students	TÜBİTAK
Autonomous Airfoil Optimisation Using Transfer Learning under Different Flight Conditions	TÜBİTAK
An AI-based Real-time Battery Health Monitoring and Management System for Electric Vehicles	TÜBİTAK
Controlled Drug Release and Wound Care Using a Hydrogel-based Smart Wound Dressing	TÜBİTAK
A Mobile Data Processing and Visualisation Application for Real-time Monitoring of Vital Signs in Dogs	TÜBİTAK
Design of a Dual-function Laboratory Device: Development of an Integrated High-speed Spin Coater and Vibration-free Centrifuge System	TÜBİTAK
Development of a pH-sensitive Alginate–Chitosan Hydrogel Wound Dressing with Antibacterial and Controlled Release Properties for Diabetic Wound Care	TÜBİTAK
Assessing the Economic and Environmental Performance of Electric Heavy-duty Vehicles: A Case Study	TÜBİTAK
Investigation of Hypotensive Tendency in Young Adults Using HRV and Wearable Sensors, and Prediction of Syncope Risk through an HRV-based Early Warning System	TÜBİTAK
A Deep Learning-based Autonomous FOD Detection System	TÜBİTAK
Data Collection through Value Stream Mapping and Development of a Carbon Footprint Algorithm at Köprü Metal	TÜBİTAK
A Smart Unmanned Ground Vehicle Prototype with RGB-Thermal Image Fusion and PIR/mmWave Triggering	TÜBİTAK
A Smart Nanosilver Hydrogel Wound Dressing Capable of Indicating Infection Risk	TÜBİTAK
Development of a Wearable System Prototype for Cuffless Blood Pressure Estimation Using FSR-based Radial Artery Pulse Wave Analysis	TÜBİTAK
Development of a Flexible Conductive Hydrogel Sensor for Non-invasive Glucose Monitoring	TÜBİTAK
A LoRa-based Solar-powered Underwater Acoustic Sensor Buoy	TÜBİTAK

Project Title	Funding Institution
Development of Magnetic Chitosan Hydrogels Reinforced by Pi–Pi Interactions for Controlled Resveratrol Release and Investigation of the Effects of Pi-system Size on Encapsulation and Release Kinetics	TÜBİTAK
A Web-based Decision Support Application for Freezer Selection by Older Adults Using MABAC-based Multi-criteria Decision-making	TÜBİTAK
Development of Environmentally Friendly Lignin/MSN/CMC/Cyclodextrin Microspheres for Dual-mode Adsorption of Pharmaceutical Pollutants	TÜBİTAK
A Line-following Robot Based on YOLO Image Processing	TÜBİTAK
Synthesis and Performance Evaluation of an Environmentally Friendly Nano-adsorbent for Removing Pharmaceutical Pollutants from Water	TÜBİTAK
Small Molecule Inhibition Targeting FGFR3-S249C Mutant Bladder Cancer: Molecular Dynamics Simulation and Ligand Design	TÜBİTAK
An AI-supported Stress Analysis Assistant	TÜBİTAK
Preparation of Chitosan-based Hydrogels as Encapsulating Carriers for Resveratrol and Quercetin and Evaluation of Their Biological Activity	TÜBİTAK
A Machine Learning-based Smart Residential Property Price Prediction System	TÜBİTAK
An FPGA-accelerated Personal Artificial Intelligence Assistant	TÜBİTAK
SmartRack: Design and Implementation of a Smart Automated Storage and Retrieval System	TÜBİTAK
Energy and Economic Analysis of a Solar-powered Thermoelectric Generator System	TÜBİTAK
A Low-cost AI-based Communication System Integrating Eye Tracking and Text-to-speech	TÜBİTAK
A Machine Learning Framework for Multiclass Stress Recognition in Virtual Reality Environments	TÜBİTAK
Vehicle and Pedestrian Detection in Drone Images Using Deep Learning and Explainable AI	TÜBİTAK
Development of a Hybrid Large Language Model and Game-based Recruitment Assessment System for Software Developer Candidates	TÜBİTAK
Investigation of the Production, Microstructure and Mechanical Property Relationships of 316L Stainless Steel Produced by Gas Metal Arc-based Wire Arc Additive Manufacturing	TÜBİTAK
Hydrophobically Modified Gelatin-based Hydrogels for Controlled Release of Hydrophobic Drugs	TÜBİTAK
Development of a Smart Glove System with Multiple Integrated Sensors Powered by Hybrid Energy Harvesting	TÜBİTAK

Project Title	Funding Institution
FireMorph An AI-supported Adaptive Firewall System	TÜBİTAK
Development of an AI-based Data Loss Prevention System	TÜBİTAK
An EEG-based Neurorecovery Score: Statistical Modelling of Motor Rhythm Asymmetry to Predict Stroke Rehabilitation Outcomes	TÜBİTAK
An EMG-based Smart Rehabilitation Glove and Mobile Monitoring System	TÜBİTAK
An AI-supported Holographic Medical Assistant	TÜBİTAK
Development of a Course Recommendation System for University Students Based on Their Interests and Career Goals	TÜBİTAK
A Smart Rehabilitation Glove and Mobile Monitoring System Project	TÜBİTAK
An AI-supported Exercise Posture and Form Correction System	TÜBİTAK
Development of a Wearable Smart Wristband and Cloud-based Mobile Application for Real-time Stress Monitoring, Assessment and Management through AI-supported Analysis of Biosignals from GSR and PPG Sensors	TÜBİTAK
Development of Sugarcane-based Biofilm Systems Containing Green-synthesised Silver Nanoparticles: Biocompatibility and Antibacterial Analyses	TÜBİTAK
Validity and Reliability of the PhysioMaster Mobile Application for Posture and Range of Motion Assessment in Patients with Stroke	TÜBİTAK
Effects of Education and Gamification-based Mobile Platform Support on Childbirth Knowledge, Fear and Self-efficacy in Pregnant Women	TÜBİTAK
Development of a Digital Guide to Typography Compatible with Turkish Characters	TÜBİTAK
Comparison of the Persuasiveness of AI-generated and Human-written Advertising Copy for Consumers	TÜBİTAK
Assessment of User Comfort in Virtual Reality: An Experimental Study of Perceptual, Physiological and Cognitive Indicators	TÜBİTAK
The Effects of Visual Metaphors on Perception and Interpretation in Emotional Design: An Experimental Study	TÜBİTAK
Representing Micro-emotions through Visual Motion Design: An Experimental Study of the Perceptual Effects of Ten-second Micro-shot Animations	TÜBİTAK
Optimisation of Interface Colour Palettes for Colour-blind Users: An Experimental Study of Perceptibility and Error Rates	TÜBİTAK
The Effects of Visual Minimalism on Information Recall and First Impressions: An Experimental Study	TÜBİTAK

Project Title	Funding Institution
Intonation and Tempo in Voice Interface Design for People with Visual Impairments	TÜBİTAK
Design of a B2B Platform for High-quality Content Supply in Digital Printing: Development of Copyright Assurance and Automated Pre-flight Checking	TÜBİTAK
Effects of AI-supported Chatbots on Young People's Decision-making Strategies: An Experimental Study	TÜBİTAK
Effects of AI-based Applications on Foreign Language Learning	TÜBİTAK
The Impact of Blockchain Technology on Process Efficiency and Cost Control in Manufacturing: A Qualitative Study of Manufacturing SMEs in Türkiye	TÜBİTAK
A Bluetooth-based Audio Bus Information and Occupancy Monitoring System for People with Visual Impairments	TÜBİTAK
Digital Transformation in Basic Accounting Education: An Adaptive Learning Platform Visualising Relationships between Balance Sheet and Income Statement Accounts	TÜBİTAK
The Social Effects of Digital Platforms on Consumer Behaviour: An Analysis of Generation Z	TÜBİTAK
FlowSoul A Turkish AI Assistant Producing Empathetic Responses Based on Text and Tone-of-voice Analysis	TÜBİTAK
A Smart Campus Ecosystem Using NFC Technology: A Digital Identity, Access and Data Management Model	TÜBİTAK
Security and Strategy in Finance with Artificial Intelligence: Fraud Detection and Algorithmic Trading	TÜBİTAK
Detecting Fake Sellers on E-commerce Platforms and Developing a Trust Score Model Using Machine Learning	TÜBİTAK
Development of an Innovative and Updatable Physical-Digital Stamp System for Public and Private Organisations	TÜBİTAK
A Ring Providing Pre-earthquake Notifications and Relaying Location and Frequency Information to Organisations Such as AFAD for Potential Entrapment under Rubble	TÜBİTAK
Increasing Students' Attention Span in Class through an AI-supported Instant Feedback System	TÜBİTAK
Evaluation of the Effects of Cigarette and Electronic Cigarette Use on Gingival Pigmentation through AI-based Image Analysis	TÜBİTAK
A Smart Plant Monitoring and Irrigation System	TÜBİTAK
An Automatic Flame Detection and Extinguishing System	TÜBİTAK
An Arduino-based RC Car	TÜBİTAK

Project Title	Funding Institution
Development of a Mobile Application for Diamond Price Prediction Using Deep Learning	TÜBİTAK
The Effects of the COVID-19 Pandemic on E-commerce in Türkiye	TÜBİTAK
An In-cabin Seat Belt Monitoring System	TÜBİTAK
Artificial Intelligence in Voice-over: A Comparison of Artificial Voice Generation and Human Voice-over	TÜBİTAK
An OSINT-based Domain Trustworthiness Analysis Tool	TÜBİTAK
Traffic Isolation and Dynamic Bandwidth Management for Critical Healthcare Applications Using AI-supported 5G Network Slicing	TÜBİTAK
The Impact of the Order of Product Reviews on E-commerce Platforms on Purchase Intention, Product Attitudes and Trust: The Cases of Trendyol, Hepsiburada and Amazon	TÜBİTAK
Biosensor Production from Food Waste: Chitosan Biofilm with Jujube-derived Carbon Dots	TÜBİTAK
Development of a Biodegradable Food Packaging Film from Coffee Grounds	TÜBİTAK

Source: [21] TÜBİTAK 2209 Student Project List 2024/1 and 2025/1

SOURCES

[1] Mission and Vision

[2] International Sustainability Application and Research Centre

[3] Scientific and Technological Research Application and Research Centre

[4] Central Laboratory CoreLab

[5] Istinye Garage Incubation Hub

[6] Garage Pre-incubation Programme

[7] Garage Academic Incubation Programme

[8] Research Centres

[9] Research Laboratories

[10] Technology Transfer Office

[11] Intellectual Property and Patent Services

[12] Patent and Technology Portfolio

[13] World Intellectual Property Day WIPO Commemoration Event

[14] Industrial Property Week Event

[15] TEKNOFEST 2025 Technology Competitions Application Announcement

[16] Student Achievement at TEKNOFEST 2025 Northern Cyprus

[17] TEKNOFEST Northern Cyprus 1–4 May 2025

[18] Launch of the SAS Powered Data Science Programme

[19] DatamedX Hackathon for High School Students

[20] Technology Transfer Office Academic Project List

[21] TÜBİTAK 2209 Student Project List 2024/1 and 2025/1

[22] 2024–2025 Consolidated Event List