

— ÖZYEĞİN —
— UNIVERSITY —



**TECHNOLOGY
TRANSFER
OFFICE**

ANNUAL REPORT FY2013

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A Message from the Director

I am pleased to report our first and very productive year as the Technology Transfer Office (TTO) at Ozyegin University (OzU) for the fiscal period from January 1 to December 31, 2013. Acknowledging the privilege of being awarded by national support TUBITAK 1513 TTO Support Program, OzU TTO team is pleased to contribute to OzU faculty members and industrial partners in their technology and knowledge transfer for added value to the society.

Thanks to meticulous coordination between OzU TTO and faculty members, number of inventions per year had a boost from one to seven, OzU's all-time high (3 international and 4 national inventions).

Our strong research reputation continues to be bolstered by the increased number of innovations that originate from OzU faculty and researchers. Furthermore, there have been more than 10 agreements with industry and OzU faculty members, all negotiated and executed by OzU TTO in FY2013.

OzU TTO also provided support for faculty members to submit 47 national project proposals (44 TÜBİTAK and 3 SANTEZ) and 38 international projects (24 EU, 5 TÜBİTAK projects and 9 other international grants) in FY2013. Eighteen national project proposals (13 TÜBİTAK and 5 SANTEZ) and 14 international projects were already selected for funding. Doubling record of FY2012, the total funded project budget received in FY2013 is nearly 9.4 million TL.

The TTO works cordially with Fit Startup Factory at OzU's Center for Entrepreneurship to promote new business development and to accelerates the process of licensing technology to startup companies. We are also happy to report three new startup companies owned by OzU faculty members initiated within FY2013.

The TTO is also reviewing internal business processes to increase our efficiencies, provide wider access to technology transfer information online and electronically and better accommodate university faculty and researchers as well as our corporate partners.

Last, but certainly not the least, as OzU TTO team, we always welcome feedback from our academic and industry partners, to optimize the efficiency of the university's technology transfer program.

Sincerely yours,

Nilay Papila, PhD

SECTION I

THIS SECTION FOCUSES ON SPONSORED RESEARCH PORTFOLIO OVERVIEW FOR THE YEARS 2009-2013 AND ZOOMS INTO FISCAL YEAR 2013.

SPONSORED RESEARCH PROJECTS

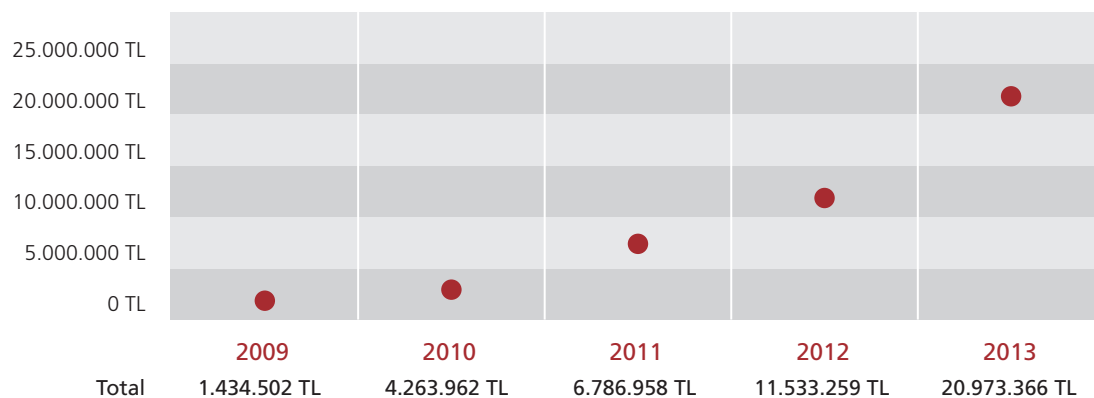
1.1 Overview

Advancing, preserving and disseminating knowledge and turning this knowledge to innovation is crucial to the University's with triple missions: (1) to conduct world-class research; (2) to provide an unparalleled education to its undergraduate and graduate students; and (3) to innovate for better societies. Consequently, the health of Özyeğin University's (OzU) sponsored research activities and support for OzU faculty from Technology Transfer Office are vitally important to the University's success.

1.2 FY 2013 Statistics

For the purpose of analyzing trends, a number of tables and charts are provided. All the figures and tables in this report are given in Turkish Liras (TL) and the exchange rate is fixed as 2.32 TL for Euro and 2.01 TL for USD. Figure 1 details cumulative sponsored research volume since FY2009 for Özyeğin University.

Figure 1 OzU Cumulative Research Funds (2009-2013)



The support for research is essential as a driver of innovation that benefits the national economy. Sponsored research volume of OzU has grown steadily from 1.4 million TL in 2009 to 11 million TL in 2012 and it nearly doubled to 21 million TL in the FY2013 - a major increase over the previous fiscal year.

Figure 2 OzU Grants and Contracts Distribution (2009-2013)

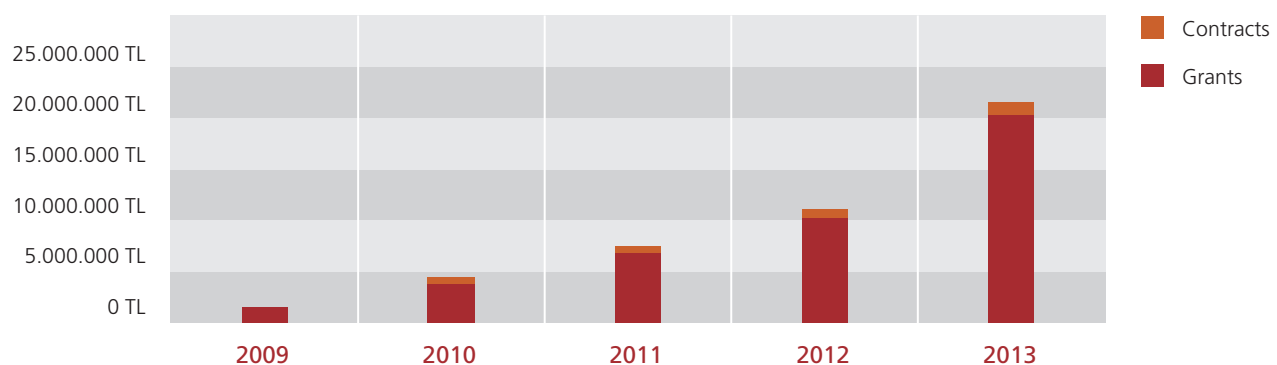


Table 1 Summary of Number of Projects and Applications between 2009-2013

	Applications 2013	Active Projects 2013	Total Project Volume 2009-2013
Total Number of Projects	98	60	122
Total Funding (TL)	20.211.129	15.060.222	20.973.366

1.3 OzU Total Research Funds by Sponsors

A five year history of sponsored research funding by sponsors to OzU is also available in this report. The majority of the University's research funding on campus (57%) comes from national agencies. Another 43% comes from international funding institutions, which are essential partners in funding endeavors that complement the national investment in research.

Figure 3 OzU Total Research Funds by Sponsors (2009-2013) 20.97 M TL

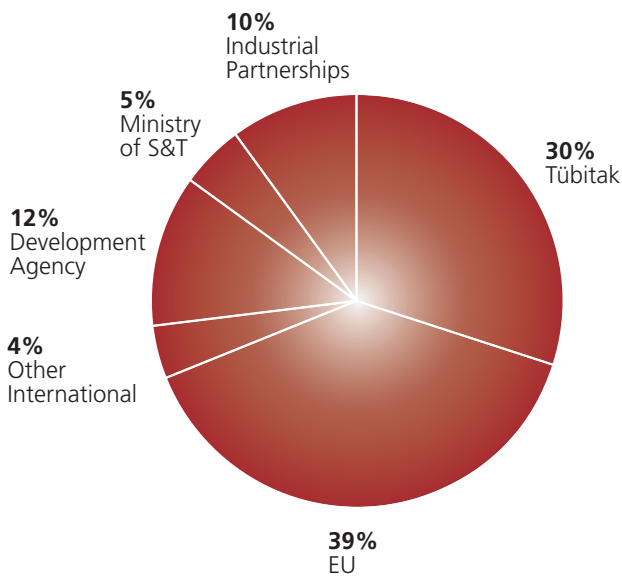
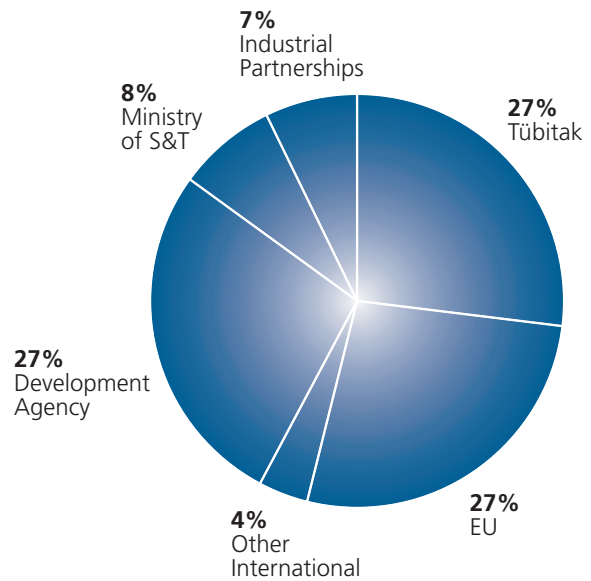


Figure 4 OzU Total Research Funds by Sponsors (2013) 9.44 M TL



1.4 5-Year History by Sponsors*

	2009	2010	2011	2012	2013	2014**
Tübitak	551.695 TL	1.347.605 TL	1.052.184 TL	726.225 TL	1.813.914 TL	766.986 TL
AB	649.660 TL	944.960 TL	1.160.770 TL	2.888.128 TL	1.492.612 TL	1.023.760 TL
Other International	0	0	18.899 TL	326.159 TL	400.469 TL	0
Development Agency	0	0	0	0	2.513.999 TL	0
Ministry of S&T	100.456 TL	0	0	223.930 TL	648.122 TL	155.195 TL
Industry Partnerships	0	536.895 TL	237.575 TL	519.960 TL	571.957 TL	0
Awards	132.691 TL	0	53.567 TL	61.899 TL	53.094 TL	0
Total	1.434.502 TL	2.829.460 TL	2.522.995 TL	4.746.301 TL	7.494.167 TL	1.945.941 TL
Cumulative	n/a	4.263.962 TL	6.786.957 TL	11.533.258 TL	20.973.366 TL	

*The details of the project can be found in part 3: The List of Projects (2009-2013)

** These projects were proposed and accepted in 2013, their expected start date will be in 2014.

1.5 OzU Total Research Funds by Faculty

OzU Faculty of Engineering represented by 74% of the total sponsored research budget managed by the University between 2009 and 2013. In FY2013, Faculty of Engineering increased its share to 82%. In 2009-2013 periods, the figure 5 shows the share for Center for Energy, Environment and Economy is 15%, Center for Computational Finance is 4%, Faculty of Economics and Administrative Sciences is 4%, Faculty of Arts and Sciences is 2% and Center for Entrepreneurship is 1%. In FY 2013, Center for Computational Finance increased its share to 8%.

Figure 5 OzU Total Research Funds by Faculty (2009-2013) 20.97 M TL

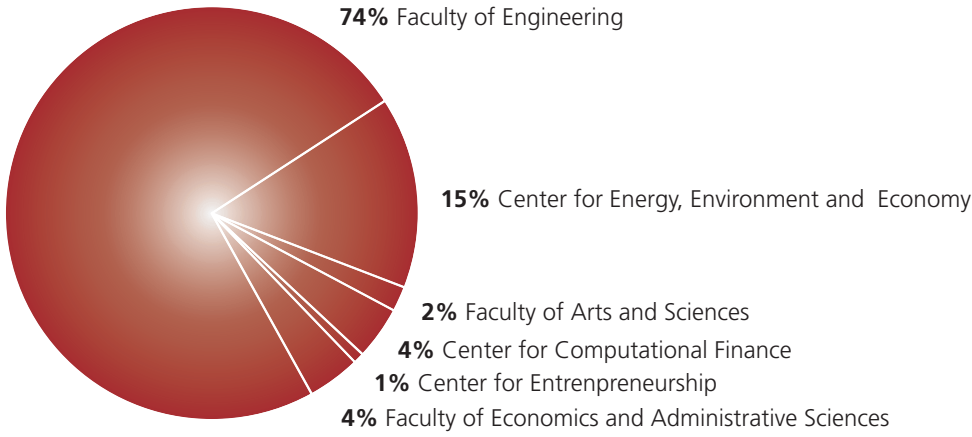
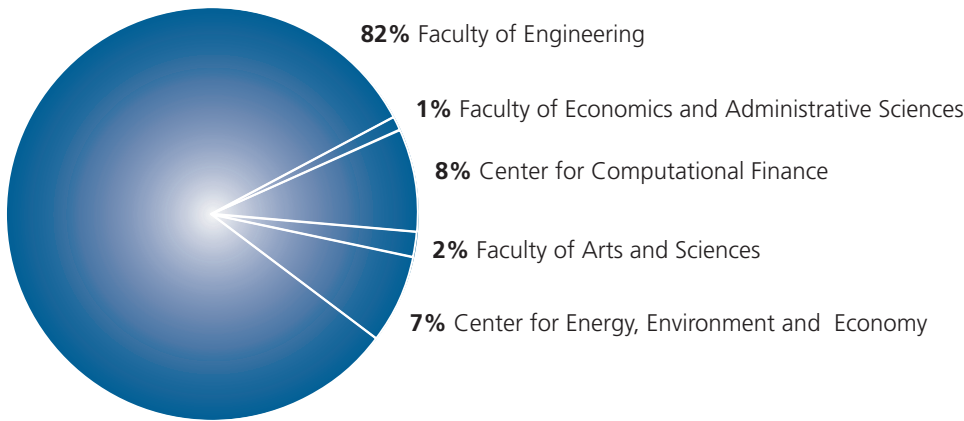


Figure 6 OzU Total Research Funds by Sponsors (2013) 9.44 M TL



1.6 5-Year History by Faculty

	2009	2010	2011	2012	2013	2014*
Center for Energy, Environment and Economy	0	5.315 TL	749.712 TL	1.787.059 TL	709.354 TL	0
Faculty of Arts and Sciences	0	132.070 TL	126.420 TL	0	210.040 TL	19.650 TL
Center for Computational Finance	0	0	0	0	739.000 TL	0
Center For Entrepreneurship	0	0	0	255.699 TL	0 TL	0
Faculty of Economics and Administrative Sciences	253.938 TL	227.375 TL	0	251.407 TL	62.990 TL	0
Faculty of Engineering	1.180.564 TL	2.464.700 TL	1.646.873 TL	2.452.136 TL	5.772.783 TL	1.926.291 TL

* These projects were proposed and accepted in 2013, their expected start date will be in 2014.

1.7 Research Expenditure (2013)

The total actual expenditures from OzU sponsored research projects is 4.565.787 TL for FY2013. The Figure 7 shows the major cost categories (personnel, stipend, travel, equipment, consumables, overhead and other direct costs). The personnel and equipment cost constitute the biggest portion by 63 % in total expenses. The stipend expenses come next by taking 16% of total expenses. 46 postgraduate students at OzU were supported by sponsored research projects in 2013.

Figure 7 Research Expenditure According to the Budget Items (2013)

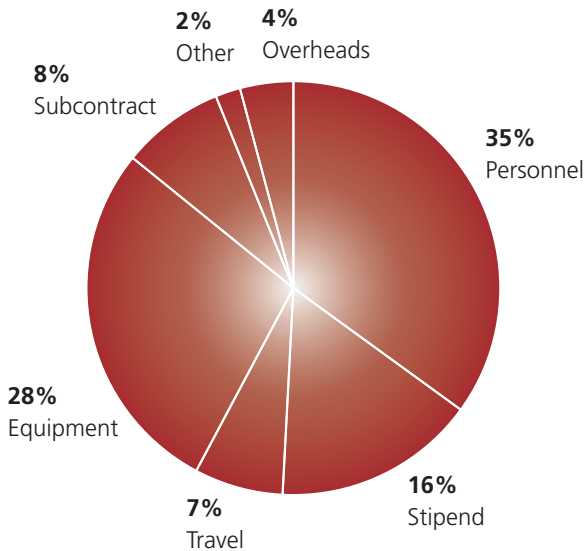
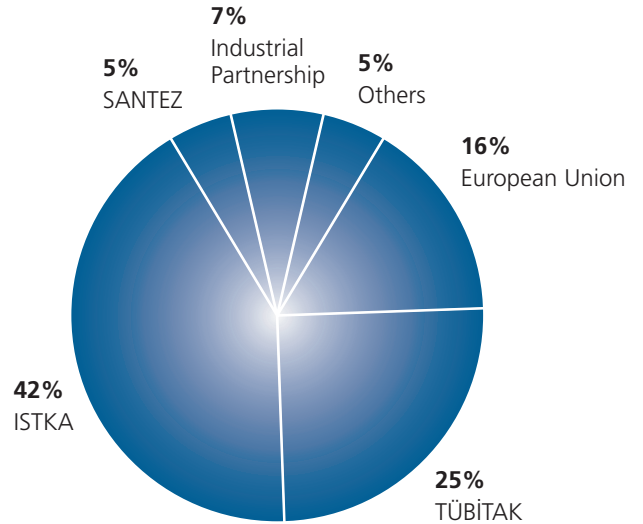


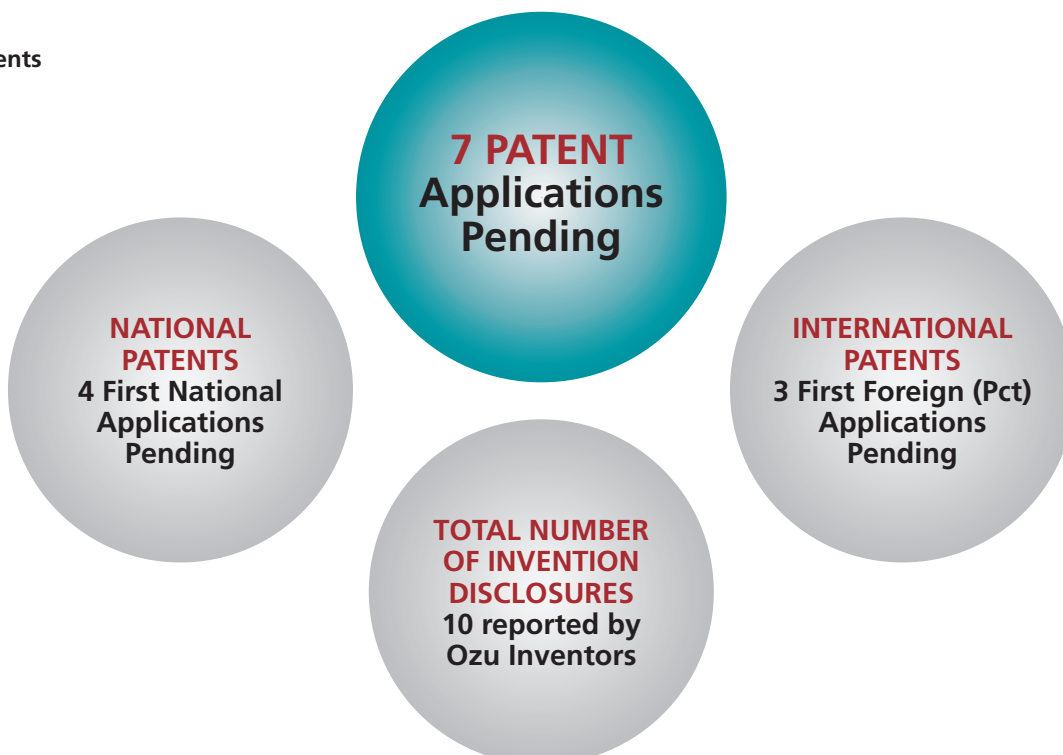
Figure 8 Research Expenditure by Sponsors (2013)



INTELLECTUAL PROPERTY MANAGEMENT

Innovations developed at OzU include those in nanotechnology, LED systems, robotics, thermoelectric, thermal cogeneration, lighting technologies, medical devices and diagnostics. The University also supports the development of promising startups through its accelerator fund, which awards funding of up to 4.000 TL to advance early-stage research to a point where it is attractive to commercial development.

1.8 Patents



SECTION II

THIS SECTION PRESENTS THE LIST OF LARGE SCALE SPONSORED PROJECTS OF OzU.

SymNet: Industrial Symbiosis Network for Environment Protection and Sustainable Development in Black Sea Basin

SymNet is a 265.816 EUR consortium grant for 2 years. It aims to establish an industrial symbiosis system, minimize environmental degradation by taking into account the effects of climate change while maximizing economic cooperation and sustainable development in the Black Sea Basin. It is a consortium project with partners from Bulgarian Academy of Sciences, CEEE-Özyeğin University, Romanian National Institute for Marine Research and Development, Academy of Science of Moldova, Istanbul's EU Pioneers Association.

(OzU Coordinator: Dr. Pinar Gökçin Özuyar, Sponsor: EU-Black Sea 2007-2013 Joint Operational Programme)

BRICKER: Total Renovation Strategies for Energy Reduction in Public Building Stock

Bricker is a 443.680 EUR grant to develop a retrofitting solution package aiming at deep energy efficient renovation of existing public-owned non-residential buildings and to demonstrate such a solution in three European buildings with different use, located in three different countries in 3 different climatic areas, achieving a high impact in all of them. It is expected that at least 50% reduction in energy consumptions will be obtained compared to the values before the BRICKER renovation. The demo site in Turkey will be selected as a public building in the Aegean Region. The duration of this grant is 4 years and the project partners are: Acciona Infraestructuras S.A., Spain; Fundation Cartif, Spain; Centro de Estudios de Materiales y Control de Obra S.A., Spain; Accademia Europea per la Ricerca Applicata ed il Perfezionamento Professionale Bolzano, Italy; Fondazione Bruno Kessler, Italy; Consejeria de Agricultura, Desarrollo Rural, Medio Ambiente y Energia, Spain; Greencom Development SCRL, Belgium; Onur İnş. Yaz. Bil. Enerji Rec. Yap. Mlz. Lab. Müh. San. Tic. Ltd. Şti., Turkey; Özyeğin University, Turkey; Purinova Sp Z.O.O., Poland; Steinbeis Innovation GmbH, Germany; Laterizi Gambettola SRL (Soltigua), Italy; S.P.B. Service Provincial des Batiments, Belgium; Fundacion Tecnalia Research and Innovation, Spain; Universite de Liege, Belgium; Youris.com, Belgium; Expander Tech S.L., Spain.

(OzU Coordinator: Prof. Dr. Pinar Mengüç, Sponsor: EU FP7 Cooperation)

Istanbul Financial Risk Management Laboratory

Istanbul Development Agency (ISTKA) awarded OzU to build the necessary infrastructure for high potential financial products and services that will transform Istanbul into an international financial center. Istanbul Financial Risk Management Laboratory not only seeks to build the necessary data platform, simulation and risk management infrastructure required for derivatives, energy and carbon emission markets but also endeavors to develop pricing and risk management applications in the pursuit of ensuring a more effective use of debt instruments employed by the public and private sectors as well as local governments. The total funding received for this project is 739.000.00 TL.

(OzU Coordinator: Assist. Prof. Dr. Emrah Şener, Sponsor: ISTKA)

EVATEG - Energy Efficient Solid State Light Research, Development Education and Demonstration Center

EVATEG is a 1.774.999 TL contract awarded by ISTKA to bring global research groups-governments and industry members together for jointly developing technologies, disseminating information, and rapid adoption of solid state lighting products. EVATEG center is fully equipped with state of the art lighting qualification equipments, advanced thermal measurements systems, micro scale defect detection systems and modeling a wide range of engineering issues thermal, mechanical, and optical. EVATEG center is established at OzU in collaboration with over 9 global universities and more than 20 international companies.

(OzU Coordinator: Assoc. Prof. Dr. Mehmet Arık, Sponsor: ISTKA)

Portable Low Cost Ultrasound Imaging System

This is a 466.553 TL grant by TÜBİTAK 1003 program for 2 years and aims the design of a mechanically scanned hand-probe for ultrasound imaging with a significantly reduces channel count (2-4 array elements). The mechanical scanning will be achieved by the hand movement of the operator. While the probe is swung on the body of the patient, the movement of the probe in the 3D space will be monitored by inertial sensors. The major outcome of the project will be a mobile device and the target price for the proposed device is less than \$1000. The low cost of the device will enable the wide use of ultrasound systems in clinics and improve diagnosis in various diseases.

(OzU Coordinator: Assist. Prof. Dr. Goksenin Yaralıoğlu, Sponsor: TÜBİTAK)

Development of Minimally Invasive Steerable Active Catheter with Position Feedback

This project is a 583.186 TL grant by TÜBİTAK 1003 program and the main purpose of this project is to develop an active catheter system that can be employed for minimally invasive medical interventions. The outcomes of this project would enable the placement of catheters into hard-to-access locations and thereby lead to wider application of this medical procedure. The duration of this project is 2 years.

(OzU Coordinator: Assist. Prof. Dr. Güven Güney Yapıcı, Sponsor: TÜBİTAK)

NEED4B - New Energy Efficient Demonstration for Buildings

NEED4B is an another EU grant of 1.267.000.00 EUR for 6 years and it aims to develop an open and easily replicable methodology for designing, constructing, and operating new low energy buildings, aiming to a large market applications. The project incorporates a strong demonstration program over the construction of 27.000 m² buildings, spread among 5 demo sites, one of which is at the Özyeğin University campus. In the demo sites, the energy consumption is planned to be 65% less than the norm and the CO₂ emission to be 90% less compared to regular practices. Özyeğin Building, SCOLA, is already finished and monitoring of the use has started.

(OzU Coordinator: Prof. Dr. Pınar Mengüç, Sponsor: EU FP7 Cooperation)

SECTION III

THIS SECTION PRESENTS THE LIST OF SPONSORED PROJECTS OF FYS 2009-2013 SUMMARIZED IN STATISTICAL DATA AND TABLES AS COMPILED BY THE TTO.

LIST OF SPONSORED RESEARCH PROJECTS (2009-2013)

FY2009

Table 2 Research Projects of Faculty of Engineering in 2009

Title of the Project	Coordinator	Sponsor	Budget
Theoretical and Experimental Investigation of Synchronous Silicon Nanowire Waveguide Displacement Sensors	Erdal Bulğan	FP7 Marie Curie	236.240 TL
Near-Field Radiation: Absorption and Scattering by Nanoparticles on Surfaces	Pınar Mengüç	FP7 Marie Curie	177.180 TL
Girişim Varlık – OzU Collaboration Project	Cenk Demiroğlu	SANTEZ	100.456 TL
Microsoft	Tankut Barış Aktemur	Award	44.245 TL
IBM	İsmail Arı	Award	35.352 TL
IBM	İsmail Arı IBM (2 nd Award)	Award	35.396 TL
Cross-Layer Optimized Design for Wireless Multimedia	Oğuz Sunay	TÜBİTAK	168.000 TL
Design of Minimum Delay Content-Adaptive Streaming Video Systems for Wireless Media Using Multi-Objective Cross-Layer Optimization (with R. Civanlar)	Oğuz Sunay	TÜBİTAK	158.400 TL
Investigation of Near-Field Radiative Transfer for Development of Thermo / Photovoltaic Power Generators	Pınar Mengüç	TÜBİTAK	225.295 TL

Table 3 Research Projects of Faculty of Economics and Administrative Sciences in 2009

Title of the Project	Coordinator	Sponsor	Budget
Measuring and Improving Return on Marketing Investment with Actionable Dashboards: Which Marketing Actions Yield Most Returns in Fast Moving Economies?	Koen Pauwels	FP7 Marie Curie	236.240 TL
IBM	Emrah Şener	Award	17.698 TL

Table 4 Research Projects of Faculty of Engineering in 2010

Title of the Project	Coordinator	Sponsor	Budget
Connectivity Brokerage for Collaborative Optimization	Ali Özer Ercan	FP7 Marie Curie	236.240 TL
Nano-Scale Protective Oxide Films for Semiconductor Applications & Beyond	Gül Bahar Basım Doğan	FP7 Marie Curie	236.240 TL
Business Intelligence for the Masses	İsmail Arı	FP7 Marie Curie	236.240 TL
Free-Space Optical Systems for Next Generation Communication Networks	Murat Uysal	FP7 Marie Curie	236.240 TL
Rapid Unsupervised Speaker Adaptation for HMM-based Text-to-Speech Synthesis	Cenk Demiroğlu	TÜBİTAK	104.800 TL
Synthesis of Clock Trees for Sampled-Data Analog IC Blocks	Hasan Fatih Uğurdağ	TÜBİTAK	147.187 TL
Design and Implementation of a Data Stream Management System with Complex Event Processing Capabilities	İsmail Arı	TÜBİTAK	107.057 TL
Analysis and Design of Cooperative Diversity Systems for Underwater Cooperative Communications	Murat Uysal	TÜBİTAK	182.485 TL
Crew Planning and Fleet Assignment Problems at Turkish Airlines	Okan Örsan Özener	TÜBİTAK	172.049 TL
Simultaneous Tracking of Head Motion and Occlusion Regions Using Multi-Modal Sensors for Augmented Reality Applications	Tanju Erdem	TÜBİTAK	212.038 TL
Run-Time Program Generation and Empirical Optimization	Tankut Barış Aktemur	TÜBİTAK	62.544 TL
High-Accuracy, Grammar-Based, Noise-Robust Speech Recognition System Development	Cenk Demiroğlu	Industry	77.880 TL
High-Accuracy, Statistical Language Model Based, Noise-Robust Speech Recognition System Development	Cenk Demiroğlu	Industry	77.880 TL
Girişim Varlık – OzU Collaboration Project	Cenk Demiroğlu	Industry	64.300 TL
Türk Telekom – OzU Collaboration Project	Oğuz Sunay	Industry	77.880 TL
Türk Telekom – OzU Collaboration Project	Oğuz Sunay	Industry	77.880 TL
Türk Telekom – OzU Collaboration Project	Tanju Erdem	Industry	77.880 TL
Türk Telekom – OzU Collaboration Project	Tanju Erdem	Industry	77.880 TL

Table 5 Research Projects of Faculty of Economics and Administrative Sciences in 2010

Title of the Project	Coordinator	Sponsor	Budget
Long-Term Marketing Effectiveness in Turkey: Does It Differ from that in the US and Western Europe?	Koen Pauwels	TÜBİTAK	91.610 TL
Perceptions of Supplier Opportunism in Turkey: The Role of Bounded Rationality in Buyer-Supplier Governance	Steven Head Seggie	TÜBİTAK	65.925 TL
Appointment System Modeling in Presence of Seasonal Demand and Walk-Ins in Outpatient Care	Tuğba Çayırılı	TÜBİTAK	69.840 TL

Table 6 Research Projects of Center for Energy, Environment and Economy in 2010

Title of the Project	Coordinator	Sponsor	Budget
Ceynak Holding – OzU Collaboration Project	Pınar Mengüç Pınar Özüyar	Industry	5.315 TL

Table 7 Research Projects of Arts and Sciences in 2010

Title of the Project	Coordinator	Sponsor	Budget
Women's Literature and Analytical Research of Women Writers' Profiles	Çimen Günay Erkol	TÜBİTAK	132.070 TL

Table 8 Research Projects of Faculty of Engineering in 2011

Title of the Project	Coordinator	Sponsor	Budget
Rapid Cross-Lingual Speaker Adaptation for Statistical Text-to-Speech Systems	Cenk Demirođlu	FP7 Marie Curie	236.240 TL
SMARTAMS Digitally Assisted Integrated Analog Mixed Signal Systems	Rahmi Hezar	FP7 Marie Curie	236.240 TL
NOKIA	Ođuz Sunay	Award	29.943 TL
Design and Production of Subwavelength-Scale Distance / Displacement Sensors by Using Synchronous Silicon Nanowire Waveguide	Erdal Bulđan	TÜBİTAK	393.454 TL
Non-Perturbative Approaches to Hadron Interactions in Quantum Chromodynamics	Güray Erkol	TÜBİTAK	280.730 TL
Physical and Upper Layer Solutions for Next Generation Optical Wireless Communications	Murat Uysal	TÜBİTAK	251.580 TL
Avea – OzU Collaboration Project 1	İsmail Arı	Industry	41.091 TL
Avea – OzU Collaboration Project 2	İsmail Arı	Industry	41.091 TL
Avea – OzU Collaboration Project 3	İsmail Arı	Industry	41.091 TL
Airties – OzU Collaboration Project	Murat Uysal	Industry	17.523 TL
Türk Telekom – OzU Collaboration Project	Ođuz Sunay	Industry	77.880 TL

Table 9 Research Projects of Center for Energy, Environment and Economy in 2011

Title of the Project	Coordinator	Sponsor	Budget
Industrial Symbiosis Network for Environment Protection and Sustainable Development in Black Sea Basin - SymNet	Pınar Mengüç Pınar Özüyar	EC Black Sea Cooperation	688.290 TL
IBM	Pınar Mengüç	Award	23.624 TL
Architecture and Engineering of Sustainable Green Buildings Workshop	Pınar Mengüç Pınar Özüyar	OTHER	18.899 TL
BEFESA – OzU Collaboration Project	Pınar Mengüç Pınar Özüyar	Industry	18.899 TL

Table 10 Research Projects of Center for Arts and Sciences 2011

Title of the Project	Coordinator	Sponsor	Budget
Mathematical Analysis Of Nonlinear Nonlocal Partial Differential Equations	Hüsnü Ata Erbay	TÜBİTAK	126.420 TL

Table 11 Research Projects of Faculty of Engineering in 2012

Title of the Project	Coordinator	Sponsor	Budget
Convergent Human Learning for Robot Skill Generation	Erhan Öztıp	FP7 Marie Curie	236.240 TL
Immersion Cooling Of Suspended And Coated Nano-Phosphor Particles For Enhanced Thermal And Optical Extraction Of Light Emitting Diodes For General Illumination "NPLC-LED"	Mehmet Arık	FP7 Marie Curie	236.240 TL
Optical Wireless Communications - An Emerging Technology	Murat Uysal	COST	236.240 TL
Integrated Environments for Advanced Spatial Construction Planning and Control	Ragıp Akbař	FP7 Marie Curie	236.240 TL
VESTEL – OzU Collaboration Project	Hasan Sözer	SANTEZ	57.494 TL
VESTEL – OzU Collaboration Project	Mehmet Arık	SANTEZ	166.436 TL
Google	Fatih Uğurdağ, Barıř Aktemur	Award	17.698 TL
IBM	İsmail Arı IBM (3rd Award)	Award	26.503 TL
Strategies for Protecting the Text-Independent Speaker Verification Systems against Attacks Using Hidden Markov Model Based Speech Synthesis and Developing Synthesis Algorithms for More Effective Attacks	Cenk Demirođlu	TÜBİTAK	163.796 TL
Advanced Microfluidics for Thermal Management of Electronics	Mehmet Arık	TÜBİTAK	328.720 TL
Customer Churn Prediction Using Social Network Analysis in a Turkish Bank Setting	Ekrem Duman	OTHER	45.823 TL
Advanced Transmission Techniques for Next Generation Terrestrial Wireless Optical Communications	Murat Uysal	OTHER	280.336 TL
AT&T Labs – OzU Collaboration Project	Cenk Demirođlu	Industry	0 TL
HP – OzU Collaboration Project	Enis Kayıř	Industry	24.700 TL
Türk Telekom – OzU Collaboration Project	İsmail Arı	Industry	77.880 TL
ASELSAN – OzU Collaboration Project	Murat Uysal	Industry	69.547 TL
Türk Telekom – OzU Collaboration Project	Oğuz Sunay	Industry	77.880 TL
Airties – OzU Collaboration Project	Oğuz Sunay, Ali Özer Ercan	Industry	14.603 TL
Türk Telekom – OzU Collaboration Project	Oğuz Sunay	Industry	77.880 TL
Türk Telekom – OzU Collaboration Project	Tanju Erdem	Industry	77.880 TL

Table 12 Research Projects of Economics and Administrative Sciences in 2012

Title of the Project	Coordinator	Sponsor	Budget
IBM	Kutsal Dođan	Award	17.698 TL
Contract Framing, Roles and the Network in Interorganizational Relationships	Steven Head Seggie	TÜBİTAK	49.310 TL
Social Media and Branding	Tolga Akçura	TÜBİTAK	184.399 TL

Table 13 Research Projects of Center for Energy, Environment and Economy in 2012

Title of the Project	Coordinator	Sponsor	Budget
New Energy Efficient Demonstration for Buildings	Pınar Mengüç, Pınar Özüyar	FP7 COOPERATION	1.687.469 TL
DHL – OzU Collaboration Project	Pınar Mengüç	Industry	37.050 TL
BSH – OzU Collaboration Project	Pınar Mengüç, Pınar Özüyar	Industry	62.540 TL

Table 14 Research Projects of Center For Entrepreneurship in 2012

Title of the Project	Coordinator	Sponsor	Budget
The European Entrepreneurship Colloquium 2013	İhsan Elgin	CIP	255.699 TL

Table 15 Research Projects of Faculty of Engineering in 2013

Title of the Project	Coordinator	Sponsor	Budget
Microstructural Design of Bulk Ultra-fine Grained and Nanostructured Materials for High Performance Applications	Güven Güney Yapıcı	FP7 Marie Curie	236.240 TL
Optical Wireless Communications - An Emerging Technology	Murat Uysal	COST	330.500 TL
Free-Space Optical Systems for Next Generation Communication Networks	Özkan Bebek	FP7 Marie Curie	236.240 TL
Trust-Based Fusion of Uncertain Information From Diverse Sources	Murat Şensoy	OTHER	95.923 TL
FARBA – OzU Collaboration Project	Mehmet Arık	SANTEZ	168.232 TL
ASELSAN – OzU Collaboration Project	Murat Uysal	SANTEZ	329.471 TL
Airties – OzU Collaboration Project	Oğuz Sunay	SANTEZ	119.033 TL
Airties – OzU Collaboration Project	Tanju Erdem	SANTEZ	31.386 TL
Research, Development, Training and Application Laboratory for Energy Efficient LED Lighting Technologies (EVATEG)	Mehmet Arık	İSTKA	1.774.999 TL
DOCOMO	Reha Civanlar	Award	53.094 TL
A Robust Optimization Approach to Multiperiod Remanufacturing Planning with Uncertain Quality of Inputs	Erim Kardeş	TÜBİTAK	85.250 TL
Semantic Representation and Fusion of Uncertain Information and Modelling Trust in the Fused Information	Murat Şensoy	TÜBİTAK	183.500 TL
Profit-Driven Data Analytics: New Algorithms and Business Applications	Ekrem Duman	TÜBİTAK	199.420 TL
Portable Low Cost Ultrasound Imaging System	Göksenin Yaraloğlu	TÜBİTAK	544.708 TL
Contract Framing, Roles and the Network in Interorganizational Relationships	Okan Örsan Özener	TÜBİTAK	181.243 TL
Development of a Medical Robotic System for Image Guided Needle Operations	Özkan Bebek	TÜBİTAK	292.495 TL
Visible Light Communications	Murat Uysal	OTHER	233.754 TL
Enabling Cooperative Diversity Techniques for Underwater Acoustic Communications	Murat Uysal	OTHER	70.792 TL
ENVY – OzU Collaboration Project	Atilla Ansal	Industry	59.000 TL
TÜPRAŞ – OzU Collaboration Project	İsmail Arı	Industry	112.147 TL
NETAŞ – OzU Collaboration Project	Murat Uysal	Industry	66.028 TL
MOMENTUM – OzU Collaboration Project	Tanju Erdem	Industry	0 TL
INVENOA – OzU Collaboration Project	Ekrem Duman	Industry	0 TL
INVENTRAM – OzU Collaboration Project	Göksenin Yaraloğlu	Industry	0 TL
ARGELA – OzU Collaboration Project	Oğuz Sunay	Industry	0 TL
ASELSAN – OzU Collaboration Project	Mehmet Arık	Industry	315.060 TL
Neurophysiology and Computational Modeling of Action-Observation	Erhan Öztop	TÜBİTAK	54.268 TL
Airties – OzU Collaboration Project	Oğuz Sunay	SANTEZ	155.195 TL
Development of Minimally Invasive Steerable Active Catheter with Position Feedback*	Güven Güney Yapıcı	TÜBİTAK	583.186 TL
Bahar Başım Patent Application*	Bahar Başım	TÜBİTAK	450 TL
Tickotex*	Bahar Başım	TÜBİTAK	118.000 TL

Algorithms, Design Methods, and Many-Core Execution Platform for Low-Power Massive Data-Rate Video and Image Processing*	Fatih Uğurdağ	FP7 ARTEMIS	445.076 TL
Seismic Analysis of Liquid-Storage Tanks with a Focus on Tank-Base Uplift*	Bülent Erkmen	FP7 Marie Curie	401.504 TL
Protein-integrated white light-emitting diodes for efficient, high-quality and biocompatible solid-state lighting*	Sedat Nizamoğlu	FP7 Marie Curie	177.180 TL
TÜBİTAK 1001 and 3501 Proposal Development Training in the field of Social Sciences and Humanities*	Çimen Günay Erkol	TÜBİTAK	19.650 TL
Research Proposal Development Training in the Field of Engineering*	Tanju Erdem	TÜBİTAK	25.950 TL
Horizon2020 Program Information Day and Proposal Development Training*	Pınar Mengüç	TÜBİTAK	19.750 TL
IBM*	İsmail Arı	Award	TBE

*These projects were proposed and accepted in 2013, their expected start date will be in 2014.

Table 16 Research Projects of Economics and Administrative Sciences in 2013

Title of the Project	Coordinator	Sponsor	Budget
The European Entrepreneurship Colloquium 2013	Ahmet Murat Fiş	TÜBİTAK	3.000 TL
Reference-Dependent Choices: A Theoretical Investigation	Begüm Güney	TÜBİTAK	49.990 TL
Marketing Science Colloquium	Erhan Erkut	TÜBİTAK	10.000 TL

Table 17 Research Projects of Center for Computational Finance in 2013

Title of the Project	Coordinator	Sponsor	Budget
Istanbul Financial Risk Management Laboratory	Emrah Şener	İSTKA	739.000 TL

Table 18 Research Projects of Faculty of Arts and Sciences in 2013

Title of the Project	Coordinator	Sponsor	Budget
Urban Implications and Governance of CEE Migration	Deniz Sert	TÜBİTAK	210.040 TL

Table 19 Research Projects of Center for Energy, Environment and Economy in 2013

Title of the Project	Coordinator	Sponsor	Budget
EEC – Bricker	Pınar Mengüç Pınar Özüyar	FP7 COOPERATION	689.632 TL
BSH – OzU Collaboration Project	Pınar Mengüç Pınar Özüyar	Industry	19.722 TL

SECTION IV

THIS SECTION PRESENTS THE LIST
COLLABORATION EVENTS, TRAININGS
ORGANIZED BY TTO IN 2013.

LIST OF EVENTS, TRAININGS (2013)

Table 20 Industry Partnership Days at OzU

No	Name of the Company	Date
1	ASELSAN	February 19
2	Enel Enerji	February 26
3	Demirdöküm	March 12
4	Kıvanç Tekstil	April 16
5	Turkcell	May 4
6	Vodafone (Oxygen Arge)	May 6
7	İstanbul Teknopark	May 13
8	Intel	May 15
9	THY Teknik	May 16
10	NETAŞ	June 1
11	ARÇELİK	June 21
12	Vestel	June 24
13	Defne Madeni Eşya	June 27
14	Fematek	June 28
15	Compugroup	July 2
16	Demirdöküm	August 15
17	YGA	September 3
18	Canovate	September 12
19	Makina Takım Endüstrisi AŞ	September 24
20	BeşA	November 4
21	The Pera EEMEA	November 8
22	Silverline	November 15
23	Antropi	November 22

Table 21 Training Events Organised by OzU TTO

No	Training Information	Date
1	Information Days on ERC Cog Grant	January 16
2	Destek Patent-Patent Information Training	May 8
3	Information Day on TUBITAK 1001, 3501 & 3001 Programs	July 25
4	Information Day on TUBITAK 1001-3501 Programs	August 3
5	Information Day on TUBITAK 1512 Individual Entrepreneurship Support Programme	November 6
6	Horizon 2020 Information Day	November 7
7	Patent Information Day for Student	December 4

Table 22 Training Events Attended by OzU TTO

No	Training Information	Date
1	Destek Patent-Patent Information Training	May 8
2	Boğaziçi EBİLTEM- Patent Research Training	May 23
3	İnovita – TÜBİTAK Information Day on Calls for Proposals for Health Program	August 14
4	EU Project Budget Management Training	September 5
5	European Framework Program Consulting-Horizon 2020	September 13
6	AUTM Technology Transfer Professionals Course	October 3
7	AUTM Essentials of Academic Technology Transfer Course	October 7
8	Destek Patent-Patent Information Training	October 9
9	AUTM – Technology Operations and Organization Skills (TOOLS) Course	October 23
10	AUTM Essentials of Academic Technology Transfer Course	October 23
11	Information Multiplier Workshop #4 – Horizon 2020-Opportunities for Turkey	October 24
12	San Francisco IP Training	August 11
13	Horizon 2020 Information Day	November 7
14	Negotiation and Communication Skills Course	November 2

CONCLUDING REMARKS

This report summarizes the sponsored research and technology transfer activities of Özyeğin University for the past 5 years. As is evident from the previous pages, there is significant activity in our organization, all designed to enhance OzU research, scholarship, and contribution to society.

Fiscal Year 2013 sponsored research activities at the Özyeğin University exceeded 9M TL. This level surpasses the previous institutional record achieved in FY2012. OzU TTO staff reviewed 98 new projects amounting over 20 million TL and managed all operations of research expenditure costing nearly 4.6 million TL.

The projects list in Section III reflects the combined efforts of TTO staff and OzU researchers.

OzU research and sponsored activities continued to experience strong support from the national funds and provided approximately 67 % of total funding in FY2013. European Union is another source of funding constituting the 27% of the total funding. In 2013, by the establishment of TTO, Özyeğin University experienced successes in outreach to selected firms that have mutual interests in specific technical collaborations leading to sponsored research.

4 national and 3 international patent applications were filed in FY2013. These inventions developed at OzU include those in nanotechnology, LED systems, robotics, thermoelectric, thermal cogeneration, lighting technologies, medical devices and diagnostics.

For the forthcoming year, OzU TTO will continue to manage efficiently all resources (people, money, and property) with the highest levels of professionalism, ethics, and solution-oriented customer service in support of the OzU academic staff.

