



TÜBİTAK

MMARMARA
RESEARCH
CENTER

SCIENCE TO
TECHNOLOGY
TECHNOLOGY TO
INDUSTRY



Supporting academic and industrial R&D activities and innovations

Assisting the government by determining Turkey's science and technology policy; conducting secretarial services for the Science and Technology Committee

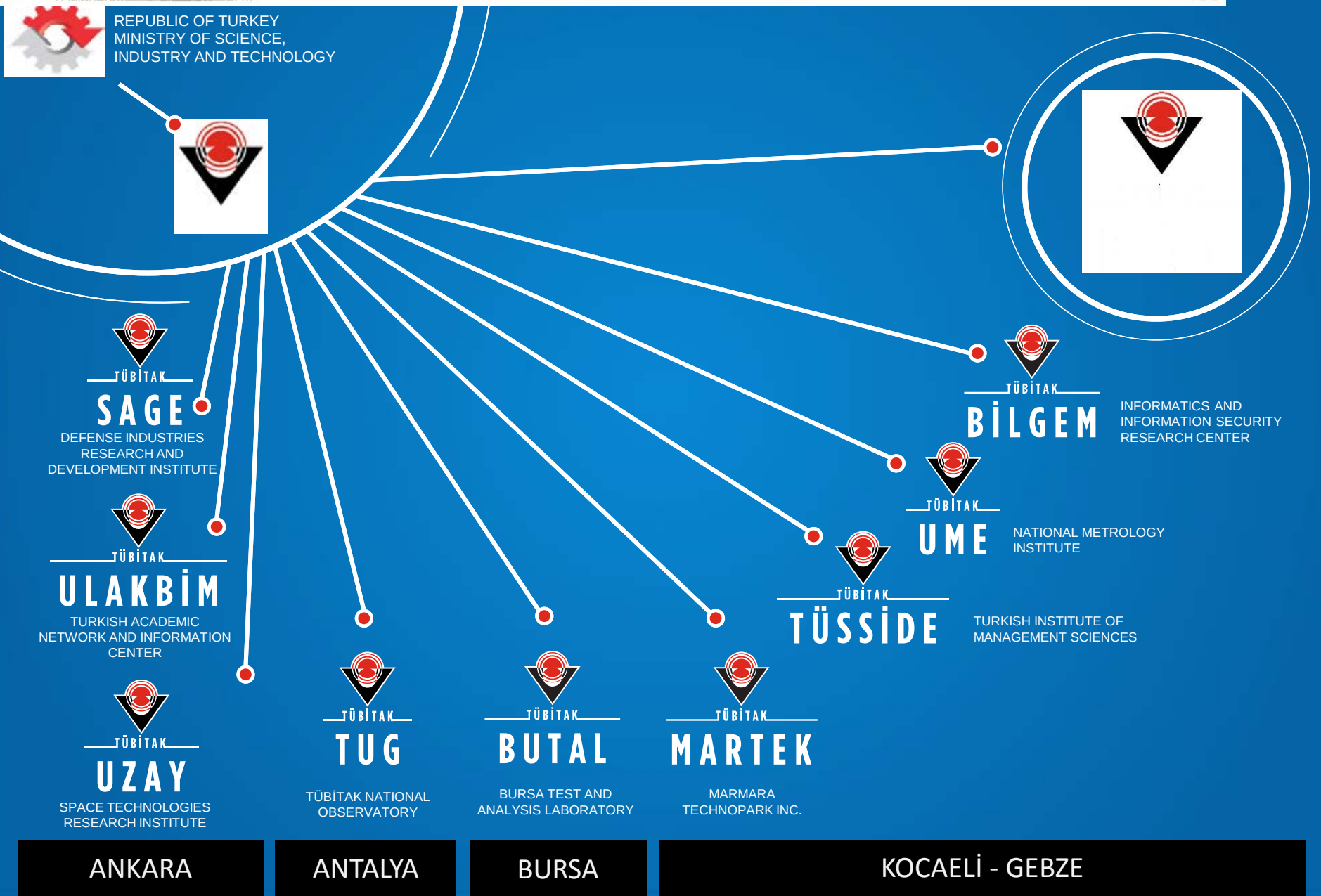
Supporting scientists domestic and foreign academic activities with scholarships and awards

Carrying out research and technology development tasks in line with national priorities through R&D Institutions

Making publications in order to improve the science and technology culture

Funding the projects of universities, public institutions and industry to contribute to the competitiveness of our country





HISTORY



1963
ANKARA



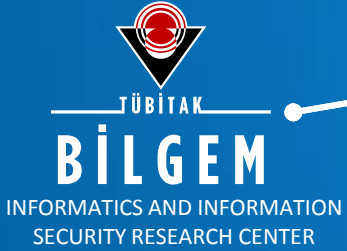
1972
GEBZE



TÜBİTAK GEBZE CAMPUS



MARMARA
RESEARCH CENTER



INFORMATICS AND INFORMATION
SECURITY RESEARCH CENTER



NATIONAL METROLOGY
INSTITUTE

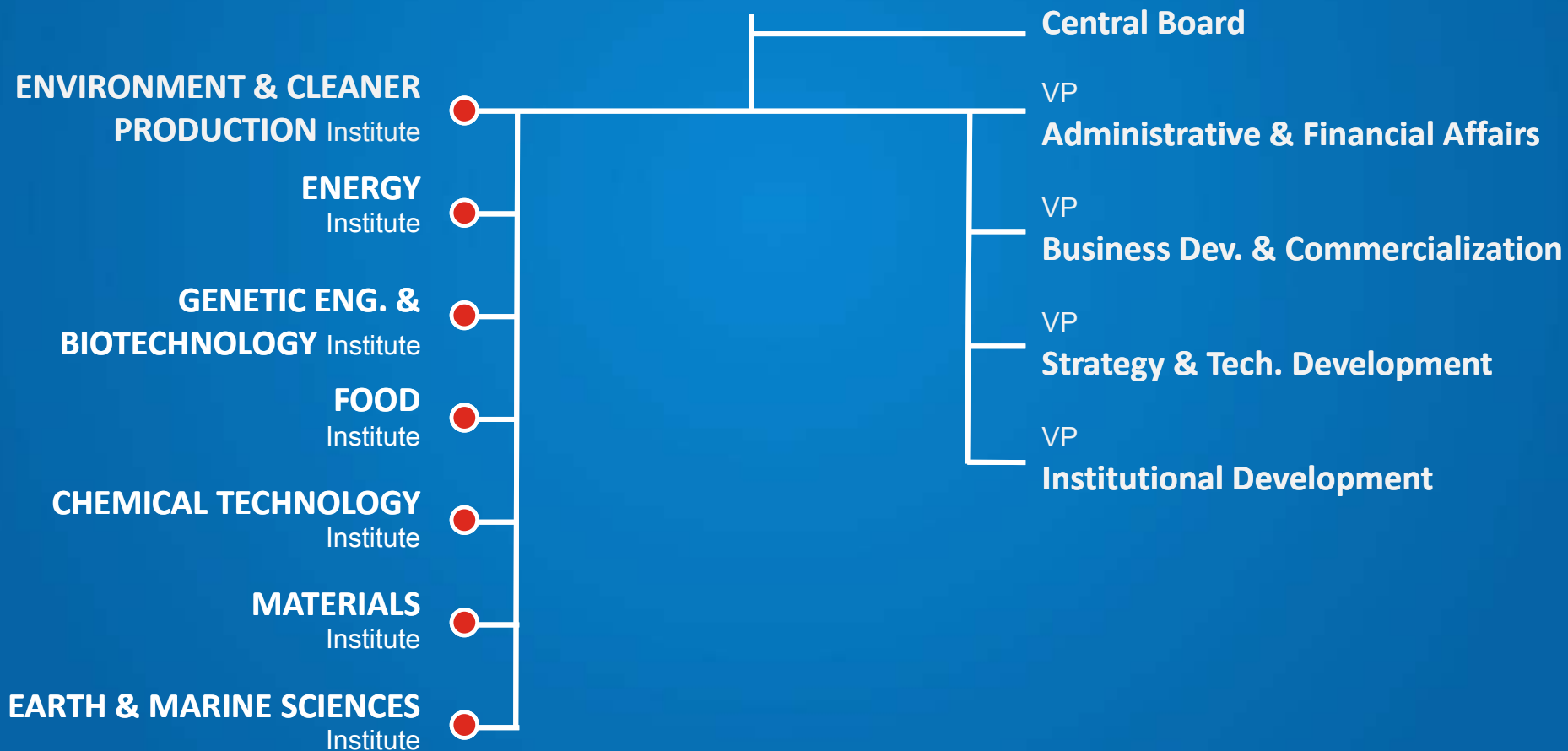


TURKISH INSTITUTE OF
MANAGEMENT SCIENCES



MARMARA TECHNOPARK INC.

PRESIDENT OF TÜBİTAK
|
MAM BOARD OF DIRECTORS
|
MAM PRESIDENT



Military Institutions

Public Sector

International
Corporation

Private Sector

Universities

TECHNOLOGY

PRODUCT

KNOW-HOW

TECHNOLOGY TRANSFER



INFRASTRUCTURE

Laboratory
213

Types of Analysis
1.256

Number of Analysis
55.000 / Year



PERSONNEL

Directors
3%

R&D
73%

Support
24%

TOTAL 942



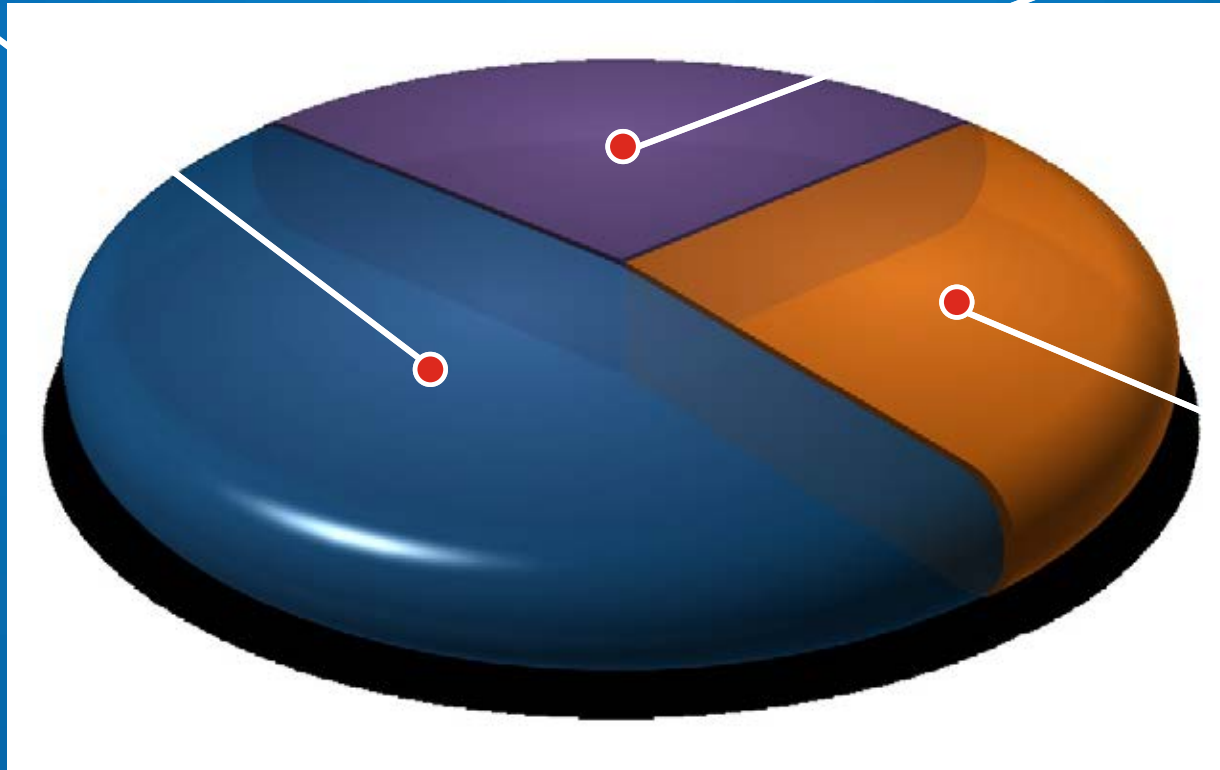
PROJECTS

Ongoing
208



PhD
47%

PhD Student
27%



Other
26%



National Secret Facility Security Clearance
NATO Secret Facility Security Clearance
Production Permit from the Ministry of National Defense

ISO 9001-2008

Quality Management System



**ISO 14001-2004 Environmental
Management System Certificate**

**ISO 17025 Accreditation
of Laboratory Services**



**EFQM
Excellence Award**

ENVIRONMENT & CLEANER PRODUCTION INSTITUTE

ENERGY INSTITUTE

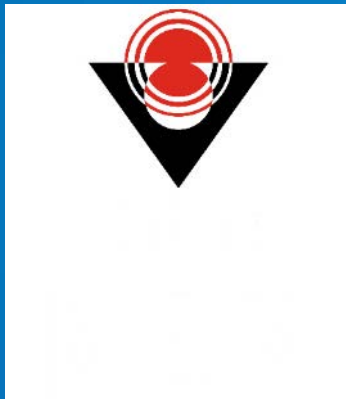
GENETIC ENG. & BIOTECH. INSTITUTE

FOOD INSTITUTE

CHEMICAL TECHNOLOGY INSTITUTE

MATERIALS INSTITUTE

EARTH & MARINE SCIENCES INSTITUTE



ENVIRONMENT & CLEANER PRODUCTION INSTITUTE



120 STAFF



5 LABORATORIES



1 RESEARCH VESSEL



WATER AND WASTEWATER MANAGEMENT

- Water Resources Management
- Integrated Watershed Management
- Environmental Biotechnology



MARINE AND INLAND WATERS

- Monitoring and assessment of ecological and chemical quality of inland, coastal and marine waters
- Integrated Coastal Zone Management applications
- Development of Decision Support Systems for e.g. ballast waters management, emergency response for spills, management of bathing areas
- Geographic Information Systems and Remote Sensing Applications



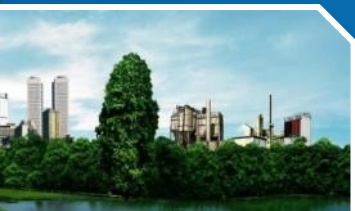
AIR QUALITY MANAGEMENT

- Noise Modelling and Mapping
- GHG Emission Management
- Climate Change Studies



SOLID AND HAZARDOUS WASTE

- Hazardous Waste Identification and Management
- Waste Minimization and Recycling
- Monitoring of Micropollutants in Environmental Matrices



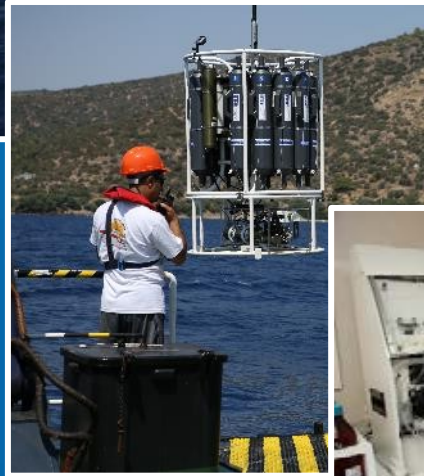
CLEANER PRODUCTION

- Resource Efficiency / Pollution Prevention
- Sustainable Production

R/V TÜBİTAK MARMARA

Regional Class Research Vessel

- Oceanography
- Hydrography
- Marine Science





POWER ELECTRONICS AND CONTROL TECHNOLOGIES

- Power Electronics
- Battery Management
- Wind Power Electronics
- Electrical Grids



FOSSIL FUEL TECHNOLOGIES

- Coal
- Natural Gas
- Combustion/Gasification
- Fuel Technologies
- Energy Efficiency



ALTERNATIVE / RENEWABLE ENERGY TECHNOLOGIES

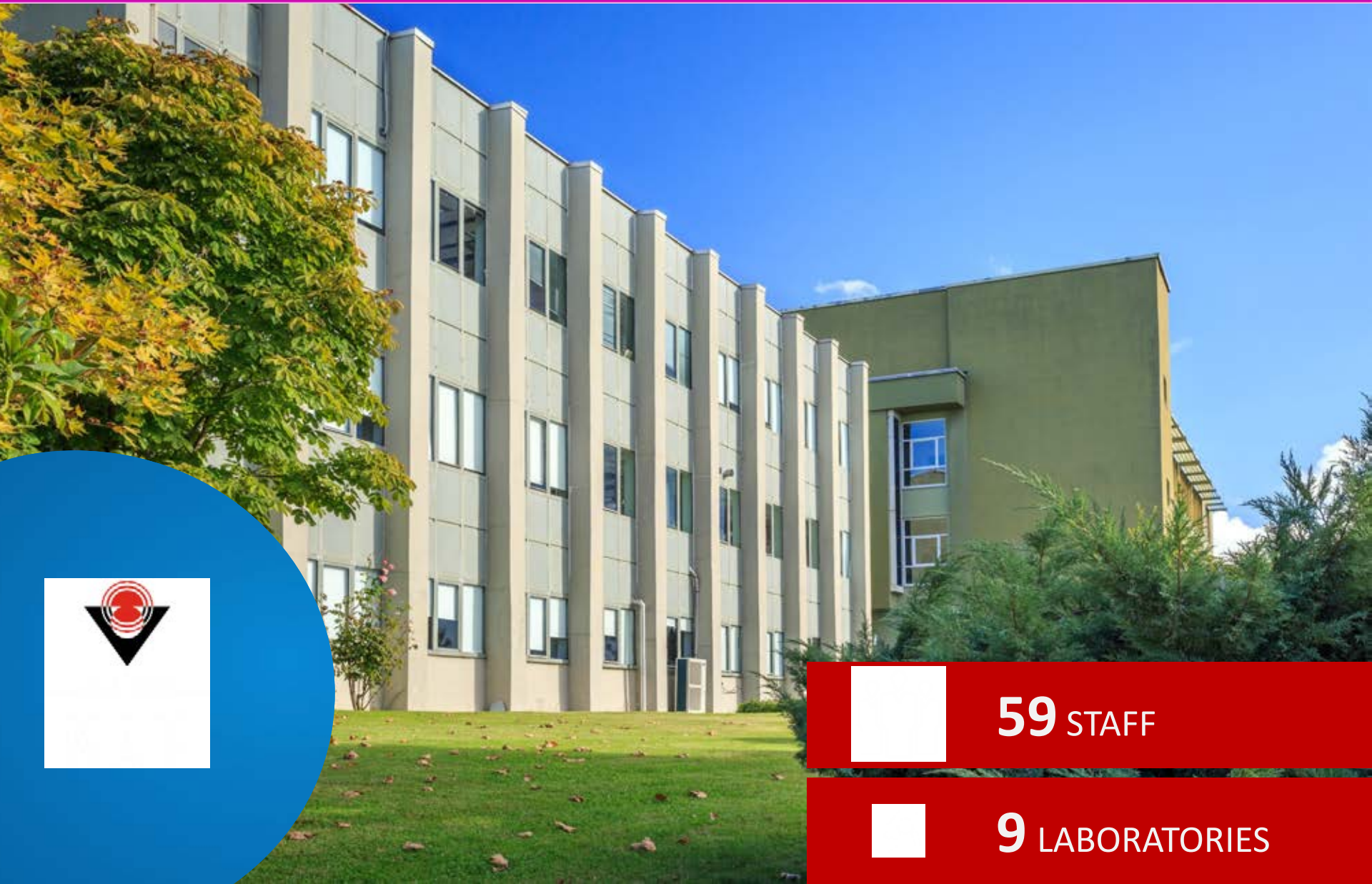
- Fuel Cell/Hydrogen
- Solar Energy
- Wind Energy
- Bio-energy
- Hydropower
- Energy Storage



TRANSPORTATION TECHNOLOGIES

- Electric Vehicles
- Electric Locomotives

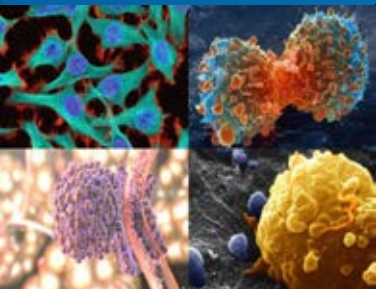
GENETIC ENG. & BIOTECH. INSTITUTE



59 STAFF



9 LABORATORIES



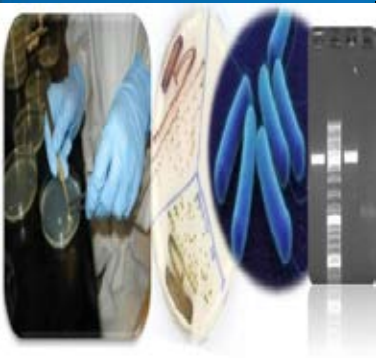
DEVELOPMENT & PRODUCTION OF NOVEL AND BIOSIMILAR THERAPEUTICS

- GLP & GMP Infrastructure
- Transgenic Mouse Platform
- Gene Cloning & Master Cell Bank
- Characterization , Production, & Purification at Pilot Scale
- Preclinical Analysis



DEVELOPMENT & PRODUCTION OF VACCINES

- Vaccine Immunology
- Vaccine Carriers & Adjuvants
- Recombinant Vaccine Development & Production
- Characterization & Purification at Pilot Scale
- Formulation & Stabilization



DEVELOPMENT & PRODUCTION OF INDUSTRIAL ENZYMES AND MICROORGANISMS

- Industrial Enzymes
- Industrial Microorganisms
- Biofuel
- Metagenome
- Graphene Production by Microorganisms

DEVELOPMENT OF ANTIBODY-BASED DIAGNOSTIC SYSTEMS

- Antibody Development
- Diagnostic Systems for Human Diseases
- Detection of Food & Environmental Contaminants
- Immunoassay, Biosensor, Immunochromatography, ELISA



78 STAFF



45 LABORATORIES



FOOD SCIENCE AND TECHNOLOGIES

- Food Processing Technologies
- Food Packaging & Preservation
- Food Quality
- Food Chemistry



NUTRITION AND FUNCTIONAL FOODS

- Development of Functional Foods and Nutraceuticals
- Human Clinical Experiments
- Food Composition Data Production, Management and Use
- Characterization of Bioactives and Phytochemicals



FOOD MICROBIOLOGY & BIOTECHNOLOGY

- Food Microbiology
- Food Molecular Biology
- Food Biotechnology
- Food Safety Assurance and Risk Assessment

CHEMICAL TECHNOLOGY INSTITUTE



65 STAFF



19 LABORATORIES



PROCESS AND INORGANIC CHEMISTRY TECHNOLOGIES

- Process Engineering
- Electrochemical Technologies
- Industrial Mineral Technologies



POLYMER AND ORGANIC CHEMISTRY TECHNOLOGIES

- Polymer Technologies
- Organic Chemistry Technologies



FORENSIC TECHNOLOGIES

- Security Product Technologies
- Criminalistics Technologies



COAL TECHNOLOGIES

- Clean Coal Technologies
- Coal Based Products

MATERIALS INSTITUTE



119 STAFF



106 LABORATORIES



STRUCTURAL AND CRITICAL MATERIALS

- Structural Materials
- Critical Materials



SENSOR MATERIALS AND SYSTEMS

- Photonic Technologies
- Acoustics, Laser, Medical Device, Nanomaterials and Coatings
- CBRN Sensor
- Millimeter Wave and Terahertz Technology



INDUSTRIAL TECHNICAL SUPPORT SERVICES

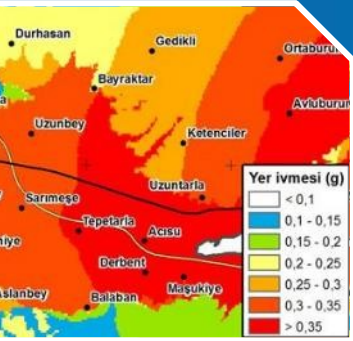
EARTH & MARINE SCIENCES INSTITUTE



32 STAFF

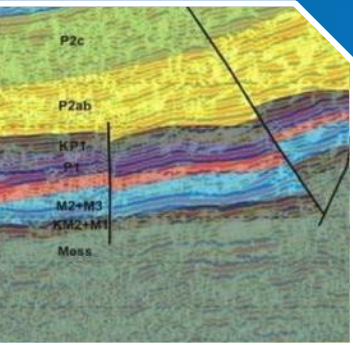


2 LABORATORIES



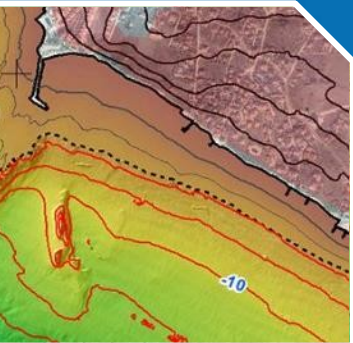
ACTIVE TECTONICS RESEARCH TECHNOLOGIES

- Earthquake Seismology
- Seismic Micro Zoning
- Crustal Deformation and Structure
- Earthquake Risk Studies
- Active Tectonics



GEOPHYSICAL IMAGING TECHNOLOGIES

- Seismic Data Acquisition, Processing, Monitoring and Modeling
- Marine Geophysics
- Development of Sea and Seabed Measurement Techniques
- Landslide Researches, Landslide Monitoring and Deformation Analysis
- Geodetical Applications



ADVANCED GEOLOGY TECHNOLOGIES

- Petroleum, Earth Gas, Coal Gas Research
- Burial and Thermal History of Sedimentary Basins
- Sedimentary Basin Analysis and Modeling
- Hydro-geochemical Studies
- Medical Geology

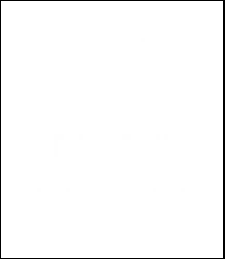


INNOVATION
for
FUTURE



THANK YOU
FOR ATTENTION

MARMAR
TÜBİTAK
A
RESEARCH
H
CENTER



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