TÜBİTAK

MAM

MARMARA RESEARCH CENTER

SCIENCE TO TECHNOLOGY
TECHNOLOGY TO INDUSTRY
TÜBİTAK | MAIN MISSIONS

- **Support** academic and industrial R&D activities and innovations
- **Carry out** research and technology development works in line with national priorities through R&D Institutions
- **Assisting** the Government by determining Turkey's science and technology policy; do secretarial tasks to the Science and Technology Committee
- **Make** publications in order to improve the science and technology culture
- **Support** scientists domestic and foreign academic activities with scholarships and awards
- **Funding** projects of our universities, public institutions and industry to contribute increasing the competitiveness of our country
TÜBİTAK GEBZE CAMPUS

- Environment and Cleaner Production
- Energy
- Food
- Genetic Engineering & Biotechnology
- Materials
- Chemistry
- Earth and Marine Sciences

TÜBİTAK MAM

TÜBİTAK BİLGEM
INFORMATICS AND INFORMATION SECURITY ADVANCED TECHNOLOGIES RESEARCH CENTER

TÜBİTAK UME
NATIONAL METROLOGY INSTITUTE

TÜBİTAK TÜSSİDE
TURKISH INSTITUTE OF INDUSTRIAL MANAGEMENT

TÜBİTAK MARTEK
MARMARA TECHNOPARK INC.

8 km²
# RESOURCES & ACTIVITIES

## INFRASTRUCTURE
- Laboratory: 213
- Analysis Types: 1,256
- Analysis Numbers: 55,000 / Year

## PERSONNEL
- Managers: % 3
- R&D: % 73
- Support: % 24

## PROJECTS
- Ongoing: 232

**TOTAL 940**
National Secret Classified Facility Security Clearances

NATO Secret Classified Facility Security Clearances

Ministry of Defence Production Authorization

ISO 9001-2008 Quality Management System Certificate

ISO 14001-2004 Environmental Management System Certificate

ISO 17025 Certificate of Accreditation of Laboratory Services
ENVIRONMENT & CLEAN PRODUCTION INSTITUTE

WATER AND WASTEWATER MANAGEMENT
- Water Resources Management
- Water and Wastewater Treatment Technologies

MARINE AND IN-LAND WATERS
- Monitoring and Management of Coastal Areas and In-land Waters
- Modeling, Geographic Information Systems and Remote Sensing Applications

AIR QUALITY MANAGEMENT
- Measurement, Analysis and Characterization
- Modeling and Mapping

SOLID AND HAZARDOUS WASTE
- Solid and Hazardous Waste Management
- Investigation of Soil Pollution

CLEAN PRODUCTION
- Resource Efficiency / Pollution Prevention
- Sustainable Production
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. & BIOTECHNOLOGY INSTITUTE**

### ANIMAL BIOTECHNOLOGY
- Animal Genetics and Proteomics
- Reproductive Biotechnology
- Diagnostic Technologies
- Animal Cell Technologies

### MEDICAL BIOTECHNOLOGY AND BIOSENSOR TECHNOLOGY
- Human Genetics and Proteomics
- Molecular Diagnostic Technologies
- Vaccine Technologies
- Tissue Engineering
- Diagnostics and Treatment of Common Diseases

### ENZYME AND MICROORGANISM BIOTECHNOLOGY
- Enzyme Engineering
- Microorganism Genetics Technologies
- Microbial Process Technologies
- Microbial Proteomics

### PLANT BIOTECHNOLOGY
- Biological Diversity
- GMO Technologies
- Gene Mapping in Plants
- Plant Genetics and Proteomics
FOOD SCIENCE AND TECHNOLOGIES
- Food Processing Technologies
- Food Science
- Food Packaging & Preservation

NUTRITION AND FUNCTIONAL FOODS
- Food Composition Data Production, Management and Use
- Biochemical Analysis and Clinical Research
- Enrichment of Food and Formulation Development Studies
- Properties of Functional Foods and Evaluation of Healthy Perspective

FOOD MICROBIOLOGY & BIOTECHNOLOGY
- Food Microbiology
- Biotechnology
- Food Safety Proofing Systems and Hygienic Due Diligence
PROCESS AND INORGANIC CHEMISTRY TECHNOLOGIES
- Process Engineering
- Electrochemical Technologies
- Industrial Minerals 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
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
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 Monitorings 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