



This project is co-financed by the  
European Union and the Republic of Turkey  
Bu proje Avrupa Birliđi ve Türkiye Cumhuriyeti tarafından  
finanse edilmektedir

***Vatan Özgöl***  
***BIAS Mühendislik***  
***vozgul@bias.com.tr***

# Description of the Organization

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Since 1997, BİAS offers advanced engineering solutions to industrial organizations from many sectors, especially Defense, Aviation and Automotive.

## Services & Capabilities

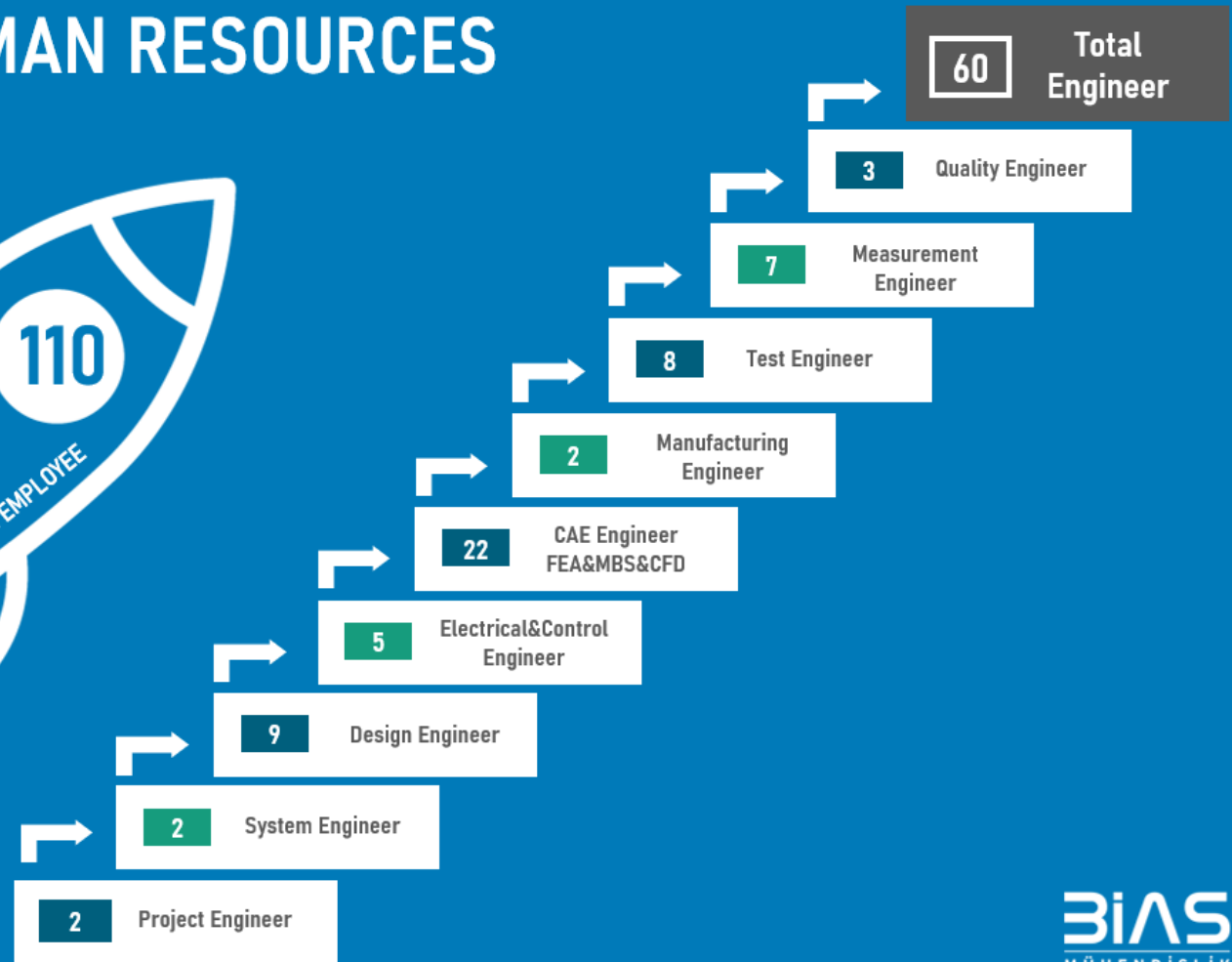
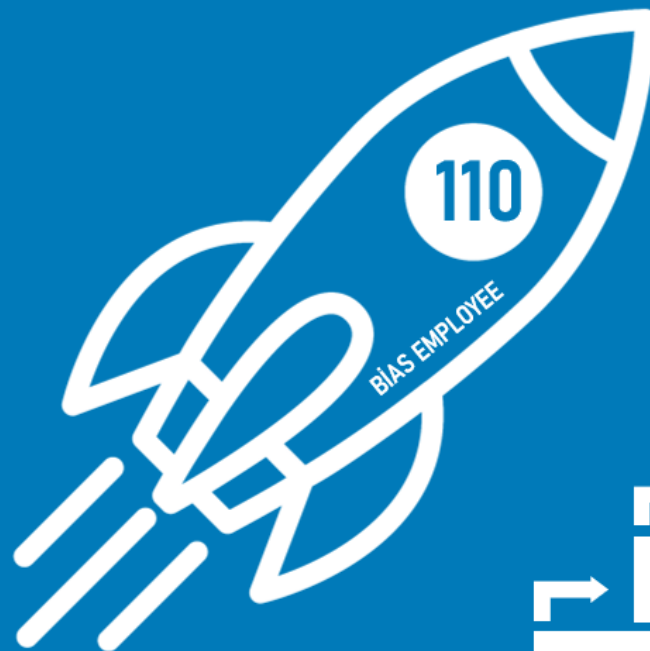
High level mechanical design & analysis-simulation capabilities, Turkey's largest private test center and measurement infrastructure, manufacturing facility and expert human resources.

## Certifications

ISO 9001: 2015, ISO 45000: 2018 certificates, as well as ISO 17025 accreditation for the test center. AS9100 is on the way.

# Description of your research interest

## ENGINEERING HUMAN RESOURCES

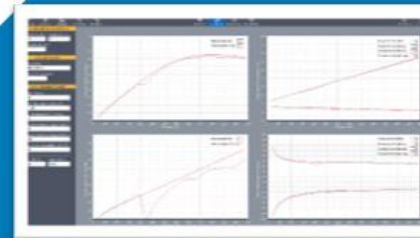
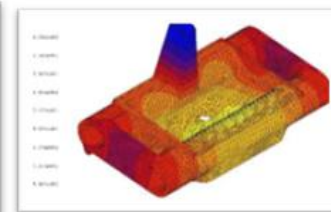


# Description of your research interest



## DESIGN & MANUFACTURING

- Electro-mechanical platforms
- Mechanisms, subsystems, components
- Testing platforms and controllers
- Acoustical measurement systems
- Driveline Parts



# Description of your research interest



At Gebze/TAYSAD

## In Turkey as a Private Test Center

### Largest

- Test center (2000 m2)
- # of employees (+30)
- Test infrastructure with hydraulic power unit
- Electro-dynamic shakers
- Climatic chambers

### Unique Testing Infrastructure

- ISO 61373 testing
- Vibration & shock tests of large payloads/DUTs at low frequencies
- Pyro-shock testing
- Combined tests (vibration & climatic)
- 2 Engine test dynamometers

### Standarts

- MIL, NAVMART, RTCA, NATO, ISO
- TÜRKAK ISO 17025 accreditation

[www.bias.com.tr](http://www.bias.com.tr)

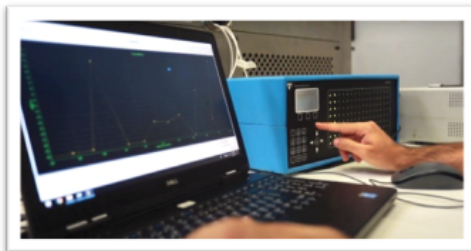


**BİAS**  
MÜHENDİSLİK

# Description of your research interest



## TEST & MEASUREMENT SERVICES



Static, Quasi-Static, Dynamic  
Uni-axial/Multi-axial Tests  
Performance/Lifetime/Fatigue/Strength  
Engine Dyno Tests  
Homologation Tests  
Drop Tests  
Elastomeric Part Tests

Vibrations  
Acoustics  
Strain Gauge  
Modal Test

Computer Aided Analysis-Simulation  
Data Processing  
Test Specification Development  
Test Specification Creation  
Accelerometer Calibration  
Fixture Design & Manufacturing

AUXILIARY  
SERVICES

FIELD SERVICES

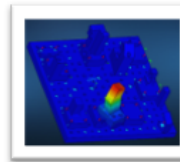
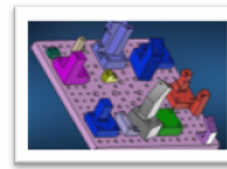
Road Load Data Acquisition  
Vehicle Instrumentation (analog, digital, CAN)  
Portable Emission Measurements

MEASUREMENT  
SERVICES

ENVIRONMENTAL  
TESTS

STRUCTURAL  
TESTS

Vibration & Shock  
Climate  
Thermal Shock  
Pyro-Shock  
Cyclic Corrosion  
Dust  
Solar  
Rain

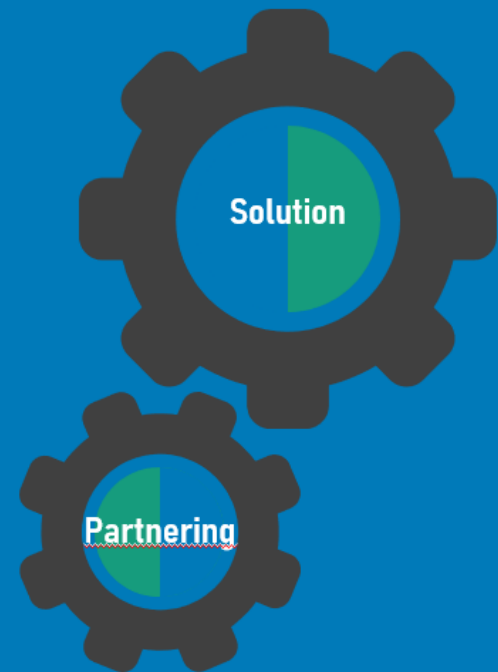




# Description of your research interest

## SOLUTIONS & COLLABORATION

- E2E Product Development & Manufacturing
- Test & Measurement Systems Development
- Electro-Mechanical Systems Design & Manufacturing
- Environmental Testing, Mechanical Testing and Measurement Services
- Field Tests (Road Load Data Acquisition & Processing, Vehicle Instrumentation)
- Analysis-Simulation Services
- Joint R&D Projects



# Project Idea

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## **Please indicate relevant Horizon Cluster 5 project ideas**

- To develop environment friendly acoustical interior trim materials for EV's to damp electrical motor noise inside the cabin

## **Please add TITLE of the PROJECT IDEA ....**

- Objectives:
  - To overcome the new challenge originated by electric motor noise via renewable/eco-friendly novel trim materials
- Expected results
  - renewable/eco-friendly novel trim materials
  - ...



# Consortium - profile of known partners *(if any)*

No	Partner Name	Type	Country	Role in the Project
01	BİAS MÜHENDİSLİK	SME	TURKEY	Data Acquisition, Data Processing, Vehicle Instrumentation, Test&Measurements, FE Acoustical Analyses, Test Specification Creation, Correlations, Verifications, Impedance Tube Measurements, In-Vehicle Acoustical Measurements, Special Insertion Loss Measurement Cabin Design&Development
02	COMPANY X	LE		Automotive Trim Materials Manufacturer
03	COMPANY Y	SME		Reverberation Chamber Measurements

04

05

# Consortium - required partners

No	Expertise	Type	Country	Role in the project
01	ECO-FRIENDLY ACOUSTICAL MATERIALS MANUFACTURER	RTD		Eco-Friendly material developer
02		SME		
03		INFR		
04		A		
05				
06				



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**Vatan Özgöl**  
**BIAS MÜHENDİSLİK**  
**Business Development Manager**  
**TURKEY**  
**+905302214823**  
**vozgul@bias.com.tr**  
**www.bias.com.tr**