

# Naizak Global Engineering Systems

Leading Laboratory Solutions Provider

Website: [www.naizaklab.com](http://www.naizaklab.com) - Email: [labsystems@naizak.com](mailto:labsystems@naizak.com)



JUBAIL JEDDAH RIYADH HAIL TABUK ABHA MADINAH AL-JOUF (Sakakah) QASSIM BAHRAIN UAE (Dubai) QATAR

## Our Global Partners

### Materials & Life Sciences

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# PRODUCT RANGE

## Materials & Life Sciences

### IMAGING

- Scanning Electron Microscopy (SEM)
- Transmission Electron Microscopy (TEM)
- Dual Beam™ (FIB/SEM) systems
- CLEM, Correlative Light and Electron Microscopy Techniques
- X-ray Photoelectron Spectroscopy
- Auger Electron Spectroscopy
- SIMS, Secondary Ion Mass Spectrometry
- Atomic Force Microscopes (AFM)
- Surface Profiler
- Optical Profiler
- Nano & Micro Indenter

### ELECTRON MICROSCOPY SAMPLE PREPARATION TOOLS

- Ultramicrotomes
- Cryo-Ultramicrotomes
- High Pressure Freezing
- Automated TEM Stainer
- Automated Tissue Processor
- Glass Knife Maker
- Rotary Microtomes
- Freeze Substitution Systems
- Freeze Fracture Systems
- Diamond Knives
- Alto Cryo-Transfer Systems
- PECS II SYSTEM
- PIPS II System
- Ilion II System
- Solarus Advanced Plasma Cleaning System
- Dimple Grinder
- Ultrasonic Cutter
- Disc Grinder System
- Cross Sectional Kit
- High Resolution Ion Beam Coater

### FABRICATION PROCESS

- Electron beam / FIB lithography
- UV lithography, Mask Aligners, Wafer Bonder
- Plasma Etching and Deposition
- Atomic Layer Deposition/ALD
- Ion Beam Etching and Deposition
- Pulse Laser , RF, E-Beam, Thermal deposition
- Low and high pressure CVD
- RAPID Thermal Annealing
- Diffusion furnaces
- Cleanroom Designing, Building and Certification
- Coating, Baking, Developing And Etching Wet Process

### Educational and Training Equipment For:

- Automation
- Process Control
- Automotive
- Aviation And Aerospace
- Chemical Engineering
- Civil Engineering
- E-learning
- Electrical Engineering
- Electronics
- Fluid Mechanics
- Food Processing
- Instrumentation And Industrial Process Control
- Marine Hydrodynamics
- Mechanical Engineering
- Mechatronics
- Physics, Science, Biology, Astronomy
- Refrigeration & Air Conditioning
- Environment and Renewable Energies
- Telecommunications
- Thermodynamics

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### TEST & MEASUREMENTS

- DC and RF Probe Stations
- Cryogenic Probe Stations
- Ellipsometer
- Spectroscopic Ellipsometer
- Physical and Magnetic property measurement systems (SQUID PPMS MPMS)
- Hall Effect Systems /Magnetometer Systems

### SYNTHESIS AND CHARACTERIZATION

- Automated flow chemistry and batch chemistry reactor systems.
- Droplet biology systems
- Microfluidic pumps and devices for microfluidic research.
- Force tensiometry/Optical tensiometers/Bubble tensiometers.
- Interfacial Shear Rheometry, ISR
- PM-IRRAS (FTIR Reflection Spectroscopy)
- KSV NIMA Langmuir and Langmuir-Blodgett
- KSV NIMA Dip Coaters
- Particle Size Analyzers
- Particle Count Analysis
- Particle Image Analysis
- Zeta Potential
- BET Surface Area Analyzers
- Chemisorption, TPD/TPR/TPO
- Gas Sorption Isotherms
- Mercury Porosimetry
- Density