

# UNITED GROUP

FOR SCIENTIFIC EQUIPMENT AND MEASURING  
SYSTEMS



## Egypt Headquarters



9 Extension 3 of Ramsis  
Street, Nasr City, Cairo



Tel: +20 2 2389 2314

/+20 2 2389 2238

Fax: +20 2 2389 2436

Mobile: +20 111 600 0761



Email: [info@unitedgroupco.com](mailto:info@unitedgroupco.com)

## Saudi Office



W.T.C. Tower, 9th Floor,  
Office No. 901/1

Al Aziziah, Makkah, Saudi  
Arabia



Mobile: +966 54 088 2735



Website: [www.unitedgroupco.com](http://www.unitedgroupco.com)

# UNITED GROUP



We recognize that today's scientific and industrial landscape demands precision, adaptability, and access to cutting-edge technology. Whether it is supplying advanced lab instruments, calibrating measurement systems, or supporting research and quality control labs, UG's SEMS division remains committed to delivering trusted, high-performance solutions.

We are proud to support universities, government labs, and industrial leaders in their pursuit of innovation, discovery, and compliance. Our team continues to serve with accuracy, expertise, and a deep understanding of scientific workflows.

We thank our clients, partners, and specialists for their ongoing trust.

Together, we continue to empower science and technology across the region.

United Group

Technology that empowers. Accuracy that delivers.



**Reda Awad Yassen**

Owner - CEO

## Our Mission

To supply world-class scientific instruments tailored to clients' technical needs and provide turnkey lab solutions, from design and installation to training and after-sales support.

## Our Goals

Our goal is to provide cutting-edge scientific solutions that support advanced research, quality assurance, and local capacity-building across academic and industrial sectors.

## Our Vision

To be the trusted regional leader in delivering advanced scientific tools that empower innovation, discovery, and quality control in research and industry.

**A Brief Story About The Company**



# ABOUT US



SCIENTIFIC RESEARCH

The SEMS division at United Group specializes in the supply, installation, calibration, and support of high-precision scientific and laboratory equipment. Serving research institutions, universities, and industrial labs, SEMS bridges the gap between global scientific innovation and local application in Egypt and the region.



# OUR KEY SERVICES

UG's Scientific Equipment and Measuring Systems Division provides complete solutions for supplying, installing, calibrating, and maintaining high-precision laboratory and scientific instruments, tailored for research, quality control, and industrial applications.

**01**

## Custom Lab Solutions

- Complete lab planning, layout, and equipment fit-out

**02**

## Installation & Calibration

- Precision setup, configuration, and validation of equipment

**03**

## Technical Training

- On-site or virtual hands-on training for lab staff and researchers

**04**

## Scientific Equipment Supply

- Lab instruments for chemistry, biology, physics, and materials science

**05**

## After-Sales Maintenance

- Regular servicing, troubleshooting, and spare part provision

**06**

## Equipment Upgrades & Modernization

- Retrofitting and enhancing legacy lab instruments with advanced control systems, improved precision, and updated interfaces.

# SOLUTIONS ARCHITECTURE

## HOW WE WORK

### Needs Assessment & System Design

We begin by thoroughly understanding the client's scientific goals, lab setup, and technical requirements. Based on that, we design a custom equipment and lab solution—selecting suitable instruments, layout, utilities, and data integration.

### Equipment Supply & On-site Installation

We provide certified scientific instruments sourced from global manufacturers. Our trained team handles safe delivery, precision installation, and environmental control to ensure devices are set up under optimal lab conditions.



### Calibration & Performance Validation

Post-installation, all equipment is calibrated using standard references. We issue calibration certificates and verify the performance of each system to meet lab accuracy and compliance requirements.

### Training, Reporting & Compliance Setup

We train users on safe operation, software use, and data handling. If required, we also help configure systems for quality documentation, audit readiness, and ISO/GLP/GMP compliance.

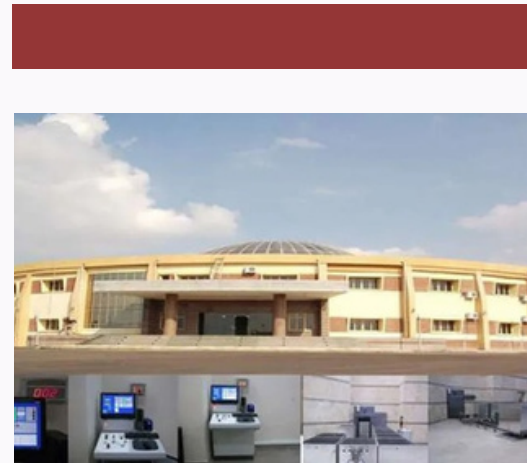
### After-Sales Support & Maintenance

Our support continues through routine maintenance visits, technical helpdesk access, spare parts supply, and system upgrades. Long-term service contracts are available for critical lab operations.

# PROJECTS SNAPSHOT

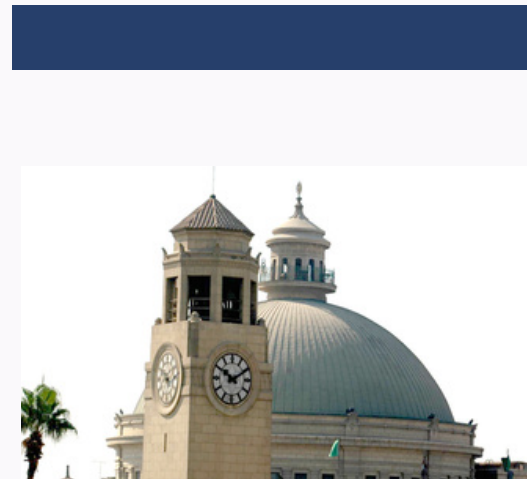
## **National Center for Nuclear Safety - Egypt**

- Delivered a full material testing laboratory for radioactive material safety applications
- Included: Sample preparation, finishing, scanning, and corrosion testing systems
- Supplied, installed, and trained engineers and faculty on complete lab operations
- Equipment suppliers: Amptek Group (USA), Meta Technical (India), Time Group (USA)



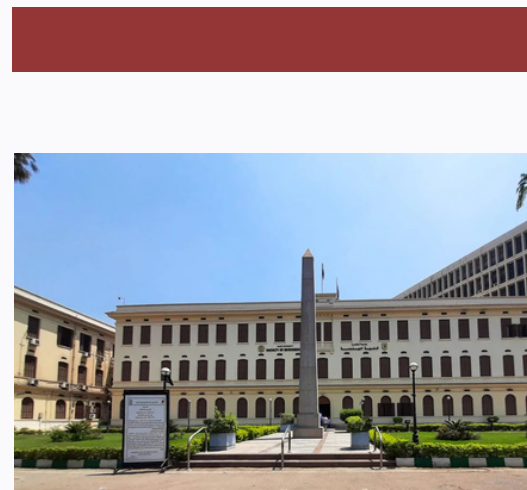
## **Cairo University - Faculty of Engineering - Egypt**

- Supplied and installed a complete vibration monitoring system for the Concrete Research Center.
- System included uni-axial and tri-axial sensors, 18-channel data recorder, analysis software, and 5000 ft of cable.
- Provided full commissioning - training lab staff.
- Project was expanded twice to add sensors and channels; UG continues to provide maintenance and support.



## **Cairo University - Faculty of Engineering - Egypt**

- Supplied and installed a high-speed scanning system to study water movement effects on bridge columns.
- System included CCD camera, frame grabber, LabVIEW for data recording, and MATLAB for image analysis.
- Delivered complete solution including hardware, software, installation, and staff training.
- Equipment supplied by IMAGINATION (USA), CYBERWARE (USA), and NATIONAL INSTRUMENT.



## **Minilock III LPCVD - Central Metallurgical Research Institute (CMRDI)**

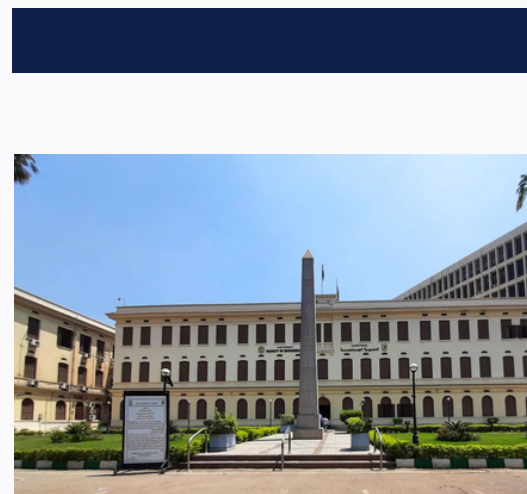
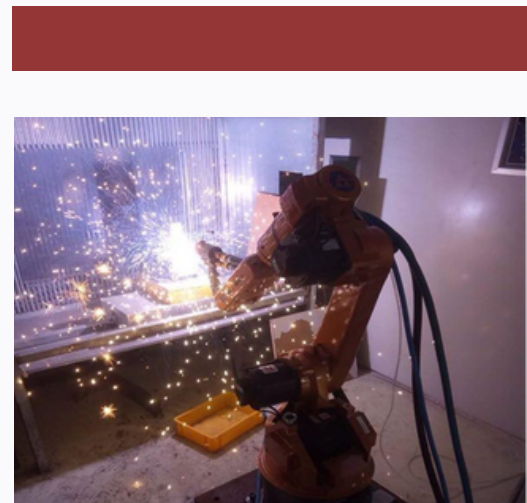
- Supplied and installed the Minilock III LPCVD system for advanced thin-film deposition using ICP plasma technology.
- Enabled high-precision etching and deposition of materials like silicon oxide, nitride, and polysilicon for semiconductor research.
- Provided full system commissioning, user training, and safety integration for automated and manual process control modes.

## **Plasma Thermal Spraying System (LBP-100)**

- Delivered and installed the LBP-100 plasma spraying system with full closed-loop automation and high-precision control.
- Integrated complete setup including robotic arm, turntable, chiller, dust collection, and soundproof spraying booth.
- Provided full commissioning, operator training, and 24/7 technical support for long-term system reliability.

## **Al-Azhar University - Faculty of Engineering - Egypt**

- Supplied and installed a full material analysis system for the Mining & Petroleum Engineering Department.
- Included: Trace analysis, potentiostat/galvanostat system, and impedance measurement system.
- Delivered with full staff training, technical follow-up, and performance validation.
- Equipment supplied by Princeton Applied Research (USA).





# Supplied Equipment

## Supplied Systems / Labs

## Client / Institution

### • Academic & Research Institutions

- Drinking Water & Wastewater Lab - Mineral Analysis System - Integrated Surveying Lab	Al-Azhar University - Civil Dept.
- Structural Models Lab - Embedded Systems Lab	Cairo University - Engineering
- Integrated Surveying Lab	Al-Azhar University - Mining Dept.
- Soil & Foundation Lab	Peace Institute for Engineering
- Complete Concrete Testing Lab	Engineering Academy - Media City

### • National Research & Nuclear Facilities

- Full Materials Testing Lab (Amptek, MetaTech, Time Group)	Nuclear Safety Center - EAEA
- PECVD Coating System - Class 1000 Cleanroom Setup	CMRDI (Central Metallurgical R&D Inst.)

### • Specialized Engineering Systems

- LVDTs, Pressure Transducers, Load Cells	Soil & Vibration Monitoring
- Polishing, Corrosion Chambers, Imaging Units	Material Coating & Surface Labs

# Our Partners

At United Group’s SEMS Division, we are proud to collaborate with some of the world’s leading manufacturers and technology providers in the field of scientific instrumentation and laboratory systems. Our partnerships ensure that we deliver only certified, high-performance, and globally recognized equipment to our clients.



株式会社東京測器研究所



IMAGE COMING SOON!



# THANK YOU

We appreciate your interest in our SEMS division. For more details or quotations, feel free to contact us:

Cairo HQ:



Nasr City, Cairo, Egypt

KSA Branch:

Ibrahim Al Khalil Road, Makkah, Saudi Arabia



+20 111 6000 761 (Egypt)

+966 54 088 2735 (Saudi Arabia)



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