



**COMPUTER
ENGINEERING
SERVICES**

SERVICE - INTELLIGENCE - EXPERTISE

COMPANY PROFILE

www.ces.com.pk

NTN: 0367400-2

GSN No. 05-01-9999-855-55

COMPANY ENGINEERING SERVICES

COMPANY BACKGROUND

Computer Engineering Services was established in 2001 to provide quality scientific and laboratory equipment at affordable prices with focus on educational and health industry

The Company is a leading provider of educational and scientific laboratory equipment for more than a decade with focus on research and educational institutes in Pakistan. The Company has a wide and diverse base of clients in the industry and educational institutes which adds to its stable foundation.

Computer Engineering Services wide and diverse client base within Pakistan also adds to its stable foundation. Currently, 70% of its business consists of numerous projects with the government sector, while 30% is made up of transactions with the private sector.

Computer engineering Services has highly experienced and self-motivated staffs lead by a management team comprising of expert technical and administrative team. Computer Engineering Services also provides lab design and need estimation consultancy for its clients.

OUR VISION

- To be the best company in Pakistan--in the eyes of our customers, shareholders, and people.
- To be the company that best understands and satisfies the product, service and self-fulfillment needs of Scientists, Engineers and technologist of Pakistan.
- We expect and demand the best we have to offer by always keeping CES's values top of mind.



3-A Mezzanine Floor, Chughtai Plaza, 35-Blue Area, Islamabad.

Ph: 051-2876624, 051-2272846, Fax: 051-2877678

Web: www.ces.com.pk, E-mail: info@ces.com.pk

OUR PARTNERS



The Lucas-Nülle Group of Companies

The LN Foundation - Lucas-Nuelle Stiftung gGmbH - is in charge of the Lucas-Nuelle group of companies. It supports institutions and projects worldwide with the aim of developing technical-industrial education and training. To this end, the foundation awards its own scholarships to selected individuals and supports educational projects financially or through the provision of training systems. Supporting science is the third pillar of the foundation's work.

Lucas-Nülle Group of Companies is made up of three companies Lucas-Nülle, PHYWE and INTEA all are rich in tradition, with different orientation but with a common cause: Trade and vocational training and further education.

Our competence, global organisation and high-quality products "Made in Germany", have resulted in the companies playing a leading role in the world market.

More than 300 highly qualified employees guarantee well-founded know-how, quality products, expert advice and excellent service.

For our customers, suppliers and employees this means a truly reliable and competent foundation for co-operation and team-work.

For more than 45 years, Lucas-Nuelle with its headquarters in Germany has been developing and producing training systems in key technologies in areas such as electrical engineering and electronics, automation technology, mechatronics, communications and automotive technology. Lucas-Nülle works with more than 60 sales partners worldwide. Three regional companies -the LN-Middle East located in Dubai, the LN WFOE located in Shanghai and the LN Inc. located in Williamsburg, USA focus especially on the regional markets.



**AUTOMOTIVE
TECHNOLOGY**



**ELECTRICAL POWER
ENGINEERING**



**POWER ELECTRONICS /
ELECTRICAL MACHINES**



**BUILDING
MANAGEMENT SYSTEMS**



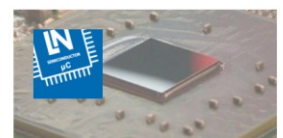
**AUTOMATION
TECHNOLOGY**



**REFRIGERATION AND
AIRCONDITIONING**



**COMMUNICATIONS
TECHNOLOGY**



MICROCOMPUTER



RENEWABLE ENERGIES



UNITRAIN



**MACHINERY AND
SYSTEMS ENGINEERING**



**PROCESS AND
CHEMICAL ENGINEERING**



PROCESS CONTROL



LAB SYSTEMS



FLUID POWER



VOCANTO



INTEA is a provider of qualification measures for the automotive industry in the areas of technology, service and human resources. INTEA trainings provide commercial and technical skills as well as manual skills and creativity in solving tasks. With training centres in Germany, Austria and Spain, INTEA is in demand as a global service partner for manufacturers, importers and those involved in trade.



PHYWE Systeme GmbH & Co. KG was founded over 100 years ago and has been owned by Lucas-Nuelle since 1988. PHYWE has built up a reputation as one of the largest global providers of training materials for physics, chemistry and biology lessons. Devices and experiments devised by PHYWE are deployed across the board from primary schools to universities wherever people teach, learn and do research.



We provide our customers the tools and equipment they need to accurately test and manufacture products for alternative energy applications. Since 1992, Greenlight has supplied battery test systems, fuel cell testing solutions and energy storage test rigs to the world's leading OEMs and research organizations. The Greenlight difference:

We have been manufacturing fuel cell and battery testing equipment for 25 years, and we evolved in Vancouver Canada, right in the center of the fuel cell and EV industry cluster. We are able to draw on the vast local pool of talented and experienced resources. More than 75% of our staff previously worked in fuel cell and EV industries. With Greenlight, you can count on the fact that you are buying sophistication and experience.

- ÿ Fuel Cell
- ÿ Battery
- ÿ Electrolyser
- ÿ Manufacturing Equipment
- ÿ Diagnostics

Heliocentris



The team at Heliocentris Academia International GmbH range back to its initiation in 1995, when the first educational products for teaching hydrogen and fuel cells were ever created.

Since then our team of engineers, educators and makers have in close collaboration with our clients and users developed a full portfolio of products, covering solutions for middle school, high school, colleges, universities and professional industrial training centers.

The product portfolio today covers different types of renewable energies, energy storage solutions and full energy management systems. Our services include clients' needs analysis, customized proposals, production, shipping, installation, training and rigorous after sales service.

Since February 2017 Heliocentris Academia became a part of Horizon Educational Group and is nowadays leveraging on a worldwide network of partners specialized in advisory of education and technical training solutions.

Laboratory Chamber & Tube Furnaces

Experts in Furnaces

THERMCONCEPT develops, designs and manufactures furnaces and systems for a broad range of production and research applications. Many in our workforce have decades of experience in furnace engineering. The expertise we have amassed is deployed on a day-to-day basis in order to plan and realise your ideal furnace solution.

Engineering

Our highly-skilled development engineers and designers, hardware and software professionals, technicians and mechanics create cost-efficient and reliable furnace solutions. Direct contact with users enables us to design furnaces that are practical to use. Our aim is to deliver crucial technical and financial benefits.

Fast and flexible

Many applications can be achieved with our extensive range of standard furnaces. The advantages for you are proven, fully-developed models, excellent value for money and quick delivery times. Of course, we also supply customised furnaces specially designed to meet your specific application. In close consultation with you, we develop a furnace system which meets your challenging tasks both reliably and economically.

Global Sales and Service Network

THERMCONCEPT furnaces and systems are proven in daily use at satisfied customers in many countries worldwide. Our international distribution network ensures that our customers receive individual support, rapid responses and expert local service.



Testing
Analysing
Ashing
Drying
Preheating
Debinding
Firing
Sintering
Annealing
Melting



KeithLink Technology Co., Ltd. has been providing "Probing and Measurement Total Solution Provider" as our company business direction. The company's business mainly covers:

Self Manufactured Manual Prober (Probe Station/Micromanipulator)



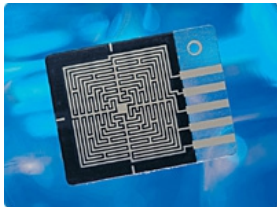
The prober covers a variety of applications, such as wafer (DC or RF) measurement, LCD Panel measurement, Four Point Sheet / Resistivity / Conductivity measurement for film, such as ITO/PET or ITO/Glass on touch panel, conductive polymer, silicon wafer, thin film solar cell, metal film, and others. It also applies to Solar Cell measurement, Flexible Display Measurement, Hall Effect Measurement, and customized measurement.

Keithley Instrument and system integrator



Keithley Instrument as well as Keithley instrument based software are provided, developed, such as MOSFET I-V, Four Point Sheet Resistivity, Temperature-Resistance, Solar Cell Efficiency, etc., and integrated with manual prober as the total solution for device characterization measurement in the fields of Semiconductor and Electronics.

PLED/OLED Test Systems



Luminance-Current-Voltage (LIV) measurement system, Lifetime test system, and Photoelectric test system for device characteristics, lifetime parameters, and defect analysis of Organic Light Emitting Diodes (OLEDs), Organic Solar Cells (OPVs) and Organic Sensors.



Keithley Instruments, Inc. designs, develops, manufactures and markets complex electronic instruments and systems geared to the specialized needs of electronics manufacturers for high-performance production testing, process monitoring, product development and research. The Company has approximately 500 products used to source, measure, connect, control or communicate direct current (DC) or pulsed electrical signals. Product offerings include integrated systems solutions, along with instruments and personal computer (PC) plug-in boards that can be used as system components or stand-alone solutions. The Company's customers are engineers, technicians and scientists in manufacturing, product development and research functions.



Tektronix®

Tektronix, Inc. is best known for manufacturing and a leading supplier of test and measurement equipment such as Oscilloscopes, Logic Analyzers Protocol Analyzers, Bit Error Rate Testers, Signal Generators, Spectrum Analyzers, Digital Multimeters, DC Power Supplies, Frequency Counters and Timers, RF Power Meters, Optical Modulation Analyzers and Video Test.

Tektronix is undisputed leader in test, measurement and monitoring. Customer satisfaction, integrity and respect for the individual are deeply rooted in Tektronix culture.

The company received a 2007 Technology & Engineering Emmy Awards for compliance standards monitoring systems for Advanced Television Systems Committee (ATSC) standard and Digital Video Broadcasting (DVB) transport streams.

OUR CLIENTS

- Establishment of Pulsed Current Voltage measurement facility at Nanotechnology Center COMSATS Institute of Information Technology Islamabad.
- Provision of Source Measure Units in Super Conducting Materials Lab Department of Physics and Ceramics Materials research lab Department of Chemistry, Quaid-e-Azam University Islamabad.
- Establishment of Two probe, Four probe, solar Cell IV testing facilities in Department of Physics, Lahore University of management Sciences (LUMS), Lahore Completion of project at School of Chemical & Materials Engineering, National University of Science & Technology (NUST) Islamabad on electrical measurement of polymer materials.
- Provision of FET/Solar Cell/Hall Effect Testing facilities with state of the art probing system at Center for Solid State Physics, University of Punjab Lahore.
- Completion of project at Department of Electronics Engineering NED University of Engineering & Technology Karachi on IV/CV testing of JFETs and Solid State Devices.
- Establishment of Automation & Robotics Laboratory, University of Engineering & Technology Peshawar
- Provision of Semi Conductor Characterization System at Department of Electronics Balochistan University of Information Technology, Engineering and Management Sciences (BUIEMS), Quetta.
- Pakistan Atomic Energy Commission.
- National Institute of Vacuum Science & Technology Islamabad.
- Pakistan International Air Lines.
- -----and more

OUR CLIENTS

1. Institute of Space Technology, Islamabad
Equipment Supplied: Keithley Instruments
2. National Center for Physics, Islamabad
Equipment Supplied: Keithley and Tektronix Instruments
3. Air University, Islamabad
Equipment Supplied: Keithley and Tektronix Instruments
4. Semiconductor Characterization System
Centre for Solid States Physics
University of Punjab
Equipment Supplied: Keithley Instruments, USA
5. Probe Station for Semiconductor Lab
Centre for Solid States Physics
University of Punjab
Equipment Supplied: Everbeing Int'l Corp
6. Physics Lab (Research Lab)
Department of Physics
COMSATS Institute of Information Technology, Islamabad
Equipment Supplied: Keithley Instruments, USA
7. Probe Station for Semiconductor Lab
Department of Electronic Engineering
NED University of Engineering & Technology, Karachi
Equipment Supplied: Everbeing Int'l Corp
8. Semiconductor Characterization System
Department of Electronic Engineering
NED University of Engineering & Technology, Karachi
Equipment Supplied: Keithley Instruments, USA
9. Semiconductor Characteristics & Testing Lab
Department of Electronics Engineering
Balochistan University of Information Technology,
Engineering and Management Sciences (BUIEMS), Quetta
Equipment Supplied: Keithley Instruments, USA
10. Research Lab
Department of Chemistry
Quaid-e-Azam University, Islamabad
Equipment Supplied: Keithley Instruments, USA
11. Physics Lab (Research Lab)
Department of Physics
COMSATS Islamabad
Equipment Supplied: Keithley Instruments, USA
12. Physics Lab (Research Lab)
Department of Physics
COMSATS Islamabad
Equipment Supplied: Keithley Instruments, USA
13. Physics Lab (Research Lab)
High Reflecting Cavity Mirrors
Department of Physics
COMSATS Islamabad
Equipment Supplied: Las Gatos Research, USA
14. Materials Laboratory
Department of Physics
COMSATS Islamabad
Equipment Supplied: Keithley Instruments, USA
15. RF/Wireless Laboratory
Department of Electrical Engineering
NWFP University of Engineering & Technology, Peshawar
Equipment Supplied: Keithley Instruments, USA
16. Department of Physics
Bahauddin Zakariya University Multan
Equipment Supplied: Keithley Instruments, USA
17. Maintenance Division
Pakistan Institute of Nuclear Science & Technology,
Islamabad
Equipment Supplied: Keithley Instruments, USA
18. Mechanical Engineering Workshop
NDC Islamabad
Equipment Supplied: Keithley Instruments, USA
19. Electronics Laboratory
Department of Electrical Engineering
NWFP University of Engineering & Technology, Peshawar
Equipment Supplied: Keithley Instruments, USA
20. Semiconductor Characterization System
Department of Physics
COMSATS Islamabad
Equipment Supplied: Keithley Instruments, USA

OUR CLIENTS

21. Soil Mechanics Lab
Department of Civil Engineering
University of Engineering & Technology, Taxila
Equipment Supplied: Impact Test, UK
22. Digital Design (VLSI) & DSP Laboratory
Department of Electrical Engineering
NWFP University of Engineering & Technology, Peshawar
Equipment Supplied: Lucas-Nulle, Germany
23. DC Machines
Department of Electrical Engineering
COMSATS Institute of Information Technology, Islamabad
Equipment Supplied: Lucas-Nulle, Germany
24. Microwave Antenna Lab
Department of Electrical Engineering
COMSATS Institute of Information Technology, Islamabad
Equipment Supplied: Lucas-Nulle, Germany
25. Machines Lab
Department of Electrical Engineering
COMSATS Institute of Information Technology, Islamabad
Equipment Supplied: Promax, Sapin.
26. Automation & Robotics Lab
NWFP University of Engineering & Technology, Peshawar
Equipment Supplied: Lucas-Nulle, Germany
27. Telecommunication Laboratory
NWFP University of Engineering & Technology, Peshawar
Equipment Supplied: SUN Equipment Corporation, USA
28. Soil Mechanics Laboratory
NWFP University of Engineering & Technology, Bannu Campus
Equipment Supplied: Impact Test, UK
29. Electrical Machines Laboratory
Department of Electrical Engineering
COMSATS Abbottabad
Equipment Supplied: Lucas Nulle, Germany
30. Electrical Machines Laboratory
NWFP University of Engineering & Technology, Abbottabad Campus
Equipment Supplied: Lucas Nulle, Germany
31. Earth Quake Centre
Civil Sismology Department
NWFP University of Engineering & Technology, Peshawar
Equipment Supplied: Quanser, USA
32. Department of Electrical Engineering
Pakistan Institute of Engineering & Applied Sciences, Islamabad
Equipment Supplied: Tektronix, USA
33. Department of Electrical Engineering
University of Engineering and Technology Peshawar and Bannu Campus
Equipment Supplied: Lucas Null Germany, SUN Corporation USA
34. Gem Stone Development Cell
University of Engineering and Technology Peshawar
Equipment Supplied: Covington USA, Rubin \$ Sons, Graves USA
35. Gem Stone Development Cell
University of Engineering and Technology Peshawar
Equipment Supplied: Covington USA, Rubin & Sons Belgium, Graves USA
36. Department for Electronics Engineering
University of Engineering and Technology Peshawar Abbottabad Campus
Equipment Supplied: LUCAS Nulle Germany, SUN Equipment USA,
37. U.S.-PAKISTAN CENTER FOR ADVANCED STUDIES IN ENERGY (USPCAS-E) National University of Sciences and Technology MUST H-12, Islamabad, Pakistan
38. SCHOOL OF NATURAL SCIENCES (SNS) National University of Sciences and Technology MUSTH-12, Islamabad, Pakistan
39. International Islamic University, Islamabad
Department of Physics.
40. Khawaja Fareed University of Engineering and Information Technology (KFUEIT) Abu Dhabi Rd, Rahim Yar Khan.
41. National Institute of Vacuum Science & Technology
National Center for Physics, Shahdara valley road, Islamabad, Pakistan

WHAT OUR CLIENTS SAY

Dr. Nazar Abbas Shah
Asst. Professor
Dept. of Physics
COMSATS, Islamabad



Keithley is exceptionally great as far as their accuracy, reliability and multifunctional resting is concerned. Keithley is very well exclusively represented by a team of professionals whose technical support and after sales services are the best. CES Pakistan on behalf of Keithley is doing a great job.

Dr. Shahzad Naseem
Director
University of Punjab,
Lahore



I have known Keithley since my graduate studentship (1980) and have been working with their instruments throughout my research career since then. A wonderful collection of instruments for various stages R&D.

Dr. Waqar Adil Syed
Asst. Professor
Dept. of Physics
COMSATS, Islamabad



I have found Keithley's Products and their local exclusive partners M/S Computer Engineering Services Extremely reliable and efficient.

Dr. Sadia Faraz
Asst. Professor
Electronic Engineering Department
NED University Karachi



The on site training of Keithley 4200-SCS/F proved to be very effective and it helped us in building the skills to use Keithley more efficiently. It is expected that with its reliable and advanced features we will be able to achieve more accurate results for Research and Education.

Hashim Raza Khan
Asst. Professor
Electronic Engineering Department
NED University, Karachi



I have used Keithley's 4200-SCS-F for I-V and C-V measurement of a few ZnO devices and I am very impressed by its user friendliness and intuitive interface. This was well complemented by prompt and efficient after sales support provided by Computer Engineering Services, Islamabad.

Dr. Muhammad Asghar Hashmi
Professor
Department of Physics
Islamia University Bahawalpur



Keithley's 4200-SCS is a versatile system for obtaining all transport characteristic parameters of a semiconductor device. Keithley Instruments, Inc. designs, develops, manufactures and markets complex electronic instruments and systems geared to the specialized needs of electronics manufacturers for high-performance production testing, process monitoring, product development and research. The Company has approximately 500 products used to source, measure, connect, control or communicate direct current (DC) or pulsed electrical signals. Product offerings include integrated systems solutions, along with instruments and personal computer (PC) plug-in boards that can be used as system components or stand-alone solutions. The Company's customers are engineers, technicians and scientists in manufacturing, product development and research functions.

Electrical Engineering Department Jalozai Campus, UET, Peshawar



Electrical Engineering Department University of Engineering & Technology, Mardan



USPCAS-E, Peshawar, Installation & Training



SERVICES



Training on Solar Cell Test System in Taipei, Taiwan, to engineer of Lahore College for Women University Lahore (2011)



Training on SCS-4200 at Department of Physics, COMSATS Institute of Information Technology Isb, to Dr. Waqas Adil and research students (2010)



1- One Week Automation & Robotics lab Training in the Industrial Engineering Department of University of Engineering & Technology, Peshawar Campus by Dr. Hans Laufer (2011)



Training on 2400SMU at Department of Chemistry, Quaid e Azam University Islamabad, to Dr. Aamir Saeed & students (2012)



Training on SCS-42000 at Department of Electronics, NED University of Engineering & Technology Karachi, to Dr. Qamar-ul-Wahab, Dr. Hashim Raza & Dr. Sadia Faraz (2009)



Computer Engineering Services CEO
Mr. Sahibzada Saleem ur Rehman with Tektronix Director Sales
EMEA Mr. Stefano Milani (2012)