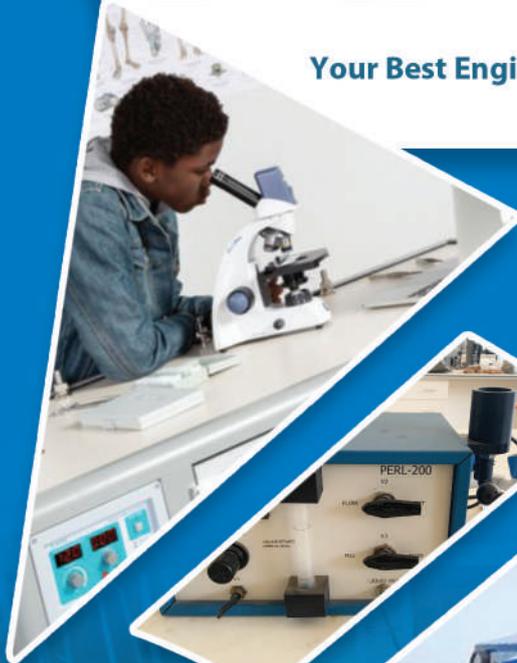




Your Best Engineering & Scientific Equipment Supplier



**Consultancy, Supply, Training
and Commissioning of Scientific
and Engineering Solutions**

P.O. Box CT 4947 Cantonments Accra, Ghana.

Tel : 00233 54 212 6979

Email: info@adastute.com

Website: www.adastute.com

Our Business Areas

Turnkey Solutions for Science, Engineering and Technology

- Technical and Vocational Training
- Secondary Schools
- University Education (Engineering and Science)
- Industrial Research, Testing and Quality Control
- Engineering and Technology

Vision

Our vision at A.D. Astute is to be considered as the leading service provider in the creation and implementation of technology rich education, research and training solutions and industrial applications in West Africa.

Mission

“To deliver innovative, world-class turnkey solutions for Engineering, Science, and Technology projects, empowering educational and industrial sectors in West Africa. With an unwavering commitment to excellence, we define, design and equip laboratories, workshops, and engineering facilities tailored to our clients’ needs.



Brief Overview

A.D. Astute Ltd was Incorporated in Ghana in the year 2010, and it's managed by a group of practitioners who have over fifty (50) years collective experience in implementing educational and industrial projects.

Over the years, we have provided world-class turnkey solutions for Engineering, Science and Technology Projects in the Educational, Power Distribution, Petroleum and Manufacturing Sectors in Ghana. A single source through which you can define, design, equip and maintain your laboratory, workshop and engineering facility.

It is worth mentioning that A.D. Astute Limited is the go to company for Petroleum Engineering Laboratory Solutions in Ghana.

Projects are co-ordinated and managed by a highly motivated and professional group of practitioners who have many years of experience implementing educational and industrial projects in Africa.

Our turnkey approach to project implementation ensures that your project is effectively managed from concept to completion.

We recognize that each project is different and demands a tailor-made response, so if you would like to discuss your requirements with us in greater detail, please do not hesitate to contact us.



What We do

o Technical and Vocational Training

- Plant Engineering Equipment
- Building Technology Equipment
- Automotive Workshop
- Mechanical Workshop, CNC, Welding & Fabrication
- Electrical and Electronics Technology
- Woodworking Technology
- Refrigeration and Air-conditioning
- Apprenticeship and Mastercraftman Hand tools (Electronics, Welding and Mechanical).



o Secondary Schools

- Physics Laboratory
- Chemistry Laboratory
- Biology Laboratory
- STEM Mobile Bench Labs



o University Education (Engineering and Science)

- Agricultural Engineering
- Biotechnology Laboratory
- Biology
- Chemical Engineering Laboratory
- Chemistry
- Civil & Mining Engineering Laboratory
- CNC, Robotics and Industrial Automation
- Electrical and Electronics Engineering Laboratories
- Environmental Engineering
- Health and Medical Science
- Physics
- Petroleum and Petrochemical Engineering Laboratories
- Process Control Engineering Laboratories
- Mechanical Engineering Laboratories and Workshops



o Industrial Research, Testing and Quality Control

- Environmental Pollution Testing
- Geological & Geochemistry Test Laboratories
- Water Testing
- Measuring, Control, non-destructive testing, metrology and calibration equipment
- Performance Testing Facilities for (Air conditioners, Refrigerators, Lamps, Kettles, Washing Machines, General Appliances).
- Petroleum Research Labs and Test Laboratories



o Engineering and Technology

- Engineering Procurement and Construction (EPC) Contractor
- Material Handling Solutions for Factories, Ports, Warehouses and general logistics. (Forklifts, Roro & Terminal Tractors, Trucks, Spreaders, Storage Solutions).



Partners

The equipment, instrumentation and related supporting services supplied by A.D. Astute are produced by leading global manufacturers and service providers of industrial and training equipment for engineering, science and technology

Over the years, A.D. Astute has built strategic relationships with leading manufacturers in Europe and North America ensuring that the latest technologies and innovation are included in our offerings to client.



Major Project Reference

Ashesi University

- o **Engineering Department**
 - CNC and Engineering Workshop Equipment
 - Wood Working Equipment
 - Material Testing Laboratory Equipment
 - Mechanical Engineering Laboratory
 - Electrical and Electronics Laboratory
 - Science Laboratory Equipment
 - Fabrication Laboratory
 - Robotics Laboratory



Accra Technical University

- o **Mechanical Engineering Department**
 - Plant Engineering Laboratory
- o **Electrical & Electronics Engineering Department**
 - Energy Test Equipment



Takoradi Technical University

- o **Mechanical Engineering Department**
 - Plant Engineering Laboratory



Akenten Appiah-Menka University, formerly COLTEK

- o **Faculty of Engineering and Technology**
 - Building and Construction Workshop and Laboratory
 - Automotive Laboratory and Workshop



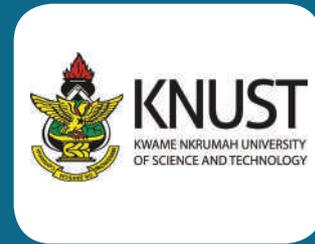
University of Mines and Technology

- o **Petroleum Engineering Department**
 - Oil Well Cementing Laboratory
 - Generic Oil and Gas Process Simulator
 - Reservoir Fluids Laboratory



Kwame Nkrumah University of Science and Technology

- o **Petroleum Engineering Department**
 - Drilling Simulator Laboratory
 - Fluid Properties (PVT) Laboratory
 - Drilling Fluids Laboratory
 - Core Preparation Laboratory
- o **Chemical Engineering Department**
 - Petrochemical Engineering Laboratory
 - Chemical Engineering Laboratory
- o **Civil Engineering Department**
 - Asphalt Test and Pavement Research Laboratory
 - Traffic Engineering Research Laboratory
- o **The Brew-Hammond Energy Center**
 - Energy Test Equipment



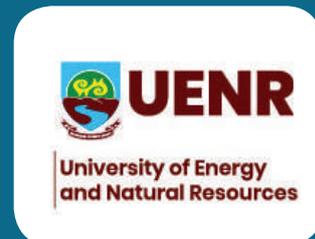
Regional Maritime University

- o **Faculty of Engineering**
 - Ship Engine Room Simulator
 - Hydraulics Laboratory
 - Generic Oil and Gas Process Simulator
 - Offshore Crane Simulator



University of Energy and Natural Resources

- o **Regional Centre for Energy & Environmental Sustainability**
 - Energy Test Instrument



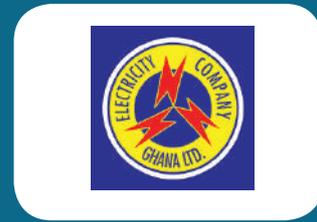
Kumasi Technical University (KsTU)

- o Oil and Gas Engineering Department
- Rock Properties Laboratory Equipment



Electricity Company of Ghana (ECG)

- Supply of Electrical Testing Equipment
- Distribution and Power Transformers
- Ring Main Units
- Cables
- Electric Poles
- Prepaid Meter
- Security Lights
- HV and LV Switchgears



Northern Electricity Distribution Company

- Supply of Electrical Testing Equipment



Energy Commission Company

- Supply of Energy Loggers

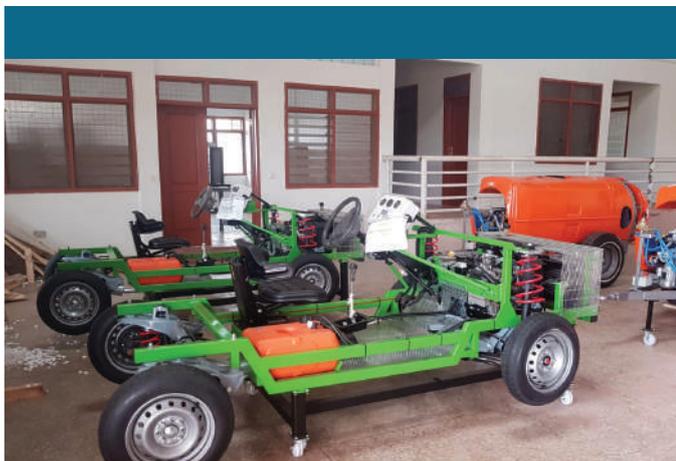
Environmental Protection Agency

- Laboratory Instruments & Materials And Chemical Reagents For EPA Sekondi Hydrocarbon Laboratory For Oil Pollution Monitoring

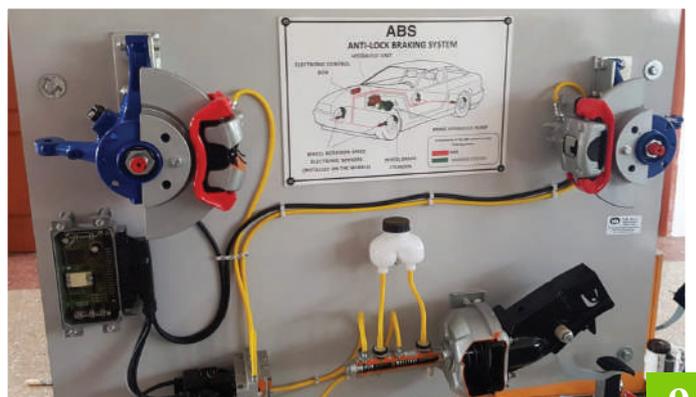
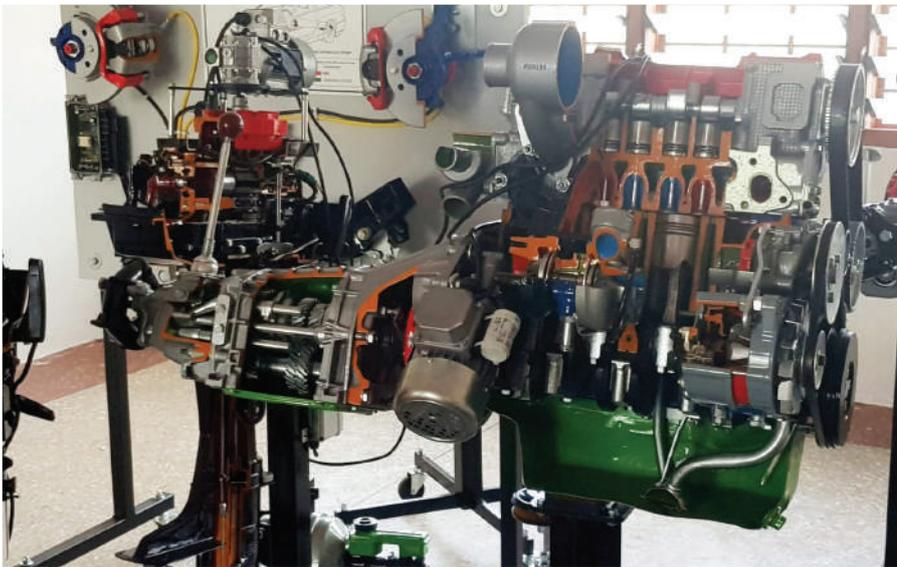


Ghana Standard Authority

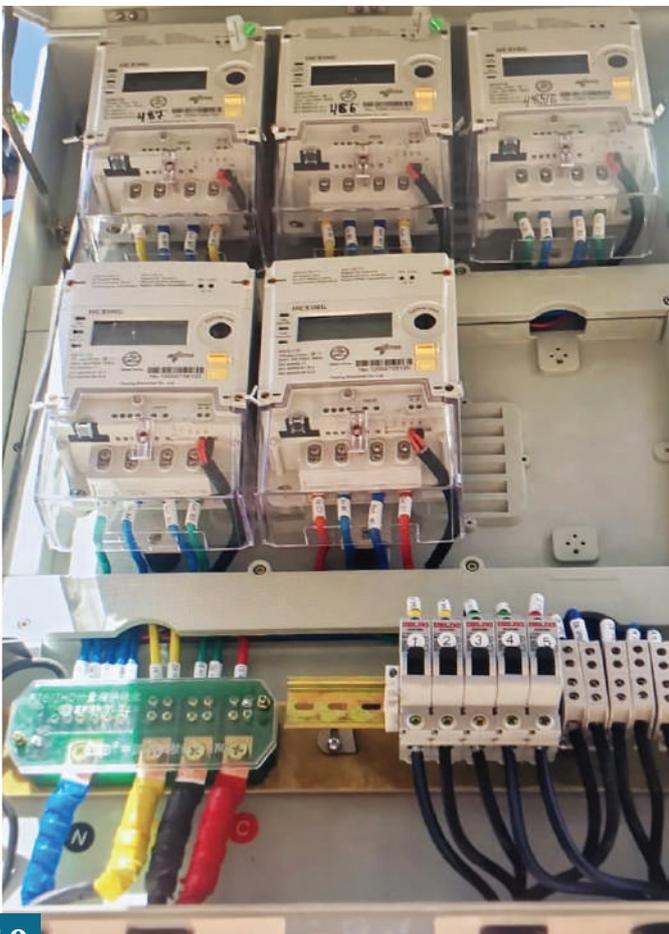
- Balanced ambient room-type calorimeter Laboratory



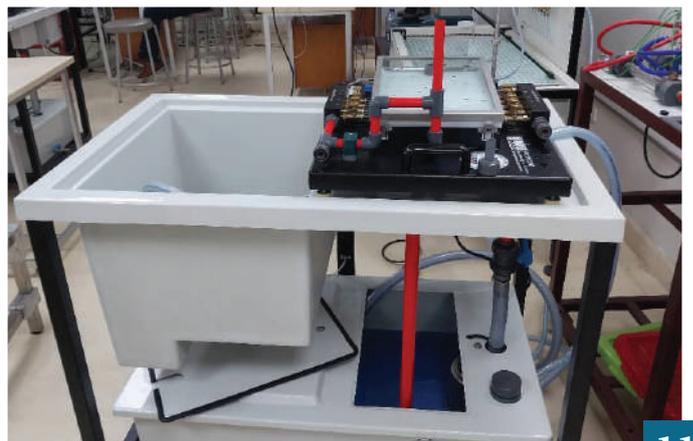
Project Photos



Project Photos



Project Photos



Kwame Nkrumah University of Science and Technology (KNUST)

A.D. Astute Ltd in consortium with its international partners were awarded multiple contracts to supply, install, train faculty staff and commission petroleum, chemical, and petrochemical engineering state of the art laboratory equipment to the Kwame Nkrumah University of Science and Technology (KNUST) in Kumasi, Ghana, under the World Bank funded Oil and Gas Capacity Building Project (OGCBP).

The overall objective was to facilitate the teaching, research and training of skilled professionals for the Oil and Gas industry in Ghana in order to address the shortage of adequately trained technicians and engineers in the local labour market and achieve the Government of Ghana local content policy. Which calls for 90% of employment in the oil and gas sector to be Ghanaian.

As part of this project, A.D. Astute and its partners supplied and delivered specialist equipment, and performed the installation, commissioning and training in the following areas:

- Drilling Fluids Laboratory
- Fluids Properties Laboratory (PVT Lab)
- Drilling and Well Control Simulator Laboratory
- Petrochemical Engineering Laboratory
- Chemical Engineering Laboratory



Country & Location	Ghana, Kumasi
End User	Kwame Nkrumah University of Science and Technology (KNUST) College of Engineering, Petroleum Engineering and Chemical Engineering Department
Funding	World Bank and Ministry of Energy Ghana
Value	USD 8.2 Million
Project Duration	2012 to 2015



A.D. Astute Services

- Tendering with Consortium Partners under rigorous ICB terms and conditions
- Global procurement
- Client relationship management
- Logistics management
- Equipment acceptance protocols and installation
- Testing and break-in training
- Specialist manufacturers' engineers on-site training
- U.S.A. and Europe training & study tour
- Spare parts provision / warranty

For the following Laboratories these are the major items supplied:

Drilling Fluids Laboratory:

- Variable Speed Electronic Rheometer,
- Digital Lubricity Tester,
- Retort Kit, 10 ml,
- Oil and Water,
- Roller Oven,
- 5-Rolls,
- Pressurized Aging Cells with Valves,
- Dynamic HTHP Filter Press etc.

Drilling & Well Control Simulator Equipment (DRILLSIM 5000 Classic):

- Drilling Control "Classic" Console
- Drilling Gauges "Classic" Console, with VDU Data Logger. Include Weight on Bit Indicator with Scale = 8 lines
- Remote Choke (Swaco Type) Control Panel
- Surface BOP Console (Air) (Koomey)
- Subsea BOP Console*
- Standpipe Manifold (Vertical), Full Size, Steel
- Choke Manifold (Vertical), Full Size, Steel

Fluids Properties Laboratory (PVT):

- PVT System: Student Module
- Density/Specific Gravity Meter (For Teaching)
- Rolling Ball Viscometer – HTHP (For Teaching)
- Digital Gasometer
- Equilibrium Flash Separator
- Gas Permeameter (Research)

Petrochemical Engineering Laboratory:

- Batch(Convectional) dryer
- Centrifugal Pump System
- Density Meter
- Flame Photometer
- Ion chromatogram ph (IC)
- Gas Cyclone
- Piping & Fittings
- Refracto-meter

Chemical Engineering Laboratory:

- Catalytic Reactors
- Computer Controlled Chemical Reactors Training System
- Computer Controlled Continuous Distillation Unit
- Computer Controlled Cracking Column
- Computer Controlled Fixed and Fluidized Bed Unit

A.D. Astute's highly experienced project management team coordinated installation and commissioning on site with international partners to ensure all equipment were fully operational and trained KNUST's faculty in the operation, maintenance, and health and safety aspects to ensure the sustainability of the laboratories.

Project Sustainability:

At the time of project commissioning and handing over, KNUST offered Bachelor Programs in Petroleum Engineering, Chemical Engineering and Petrochemical Engineering with the acquisition of state of the arts laboratories, teaching and research capacities of the two departments have been boosted, new program have been recently introduced (MSc, MPhil and PhD in Petroleum Engineering) and MPhil Chemical Engineering.

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THE WORLD BANK



Ashesi University

In 2015 Ashesi University launched its flagship engineering program. Ashesi’s new engineering majors – Computer Engineering, Electrical and Electronic Engineering, and Mechanical Engineering – will place emphasis on hands-on learning, entrepreneurship, design and problem solving, and will equip students with skills to create long-term solutions to Africa’s engineering challenges and deploy better-designed infrastructure for local needs.

Through extensive market research and competitive tendering A.D. Astute Ltd, was selected as the lead supplier and awarded multiple contracts by the University’s Procurement Committee to provide specialized equipment, installation, train lab technicians, and commission various laboratories for engineering education. Funding for the laboratory project came from the United States Agency for International Development (USAID/ASHA).

A.D. Astute supplied and delivered specialist equipment, and performed the installation, commissioning and training in the following areas:

- CNC and Engineering Workshop Equipment
- Wood Working Equipment
- Material Testing Laboratory Equipment
- Mechanical Engineering Laboratory
- Electrical and Electronics Laboratory
- Science Laboratory Equipment
- Fab Lab
- Computer Engineering Robotics Laboratory



Country & Location	Ghana, Berekuso
End User	Ashesi University
Funding	United States Agency for International Development USAID
Value	USD 1.5 Million
Project Duration	2015 to 2024

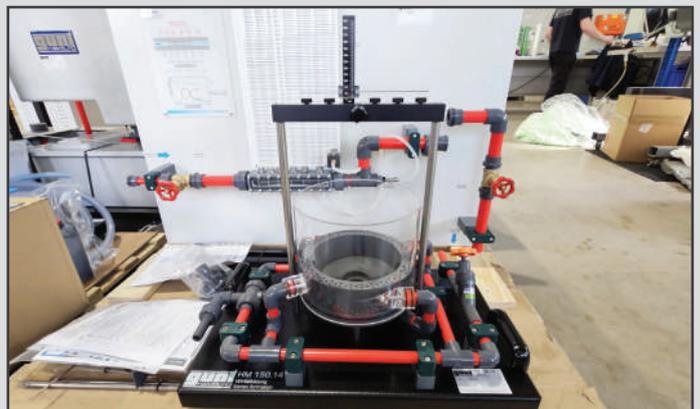
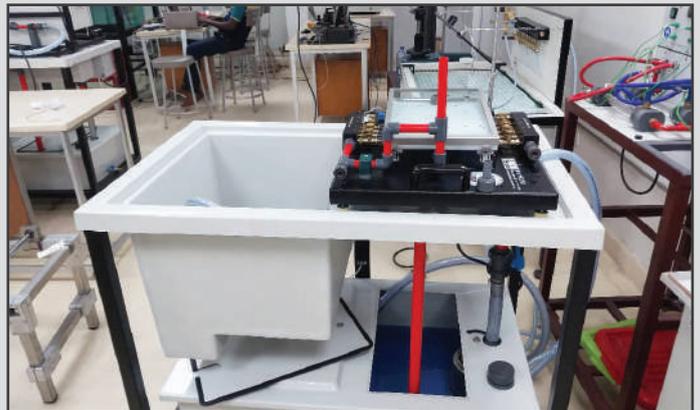
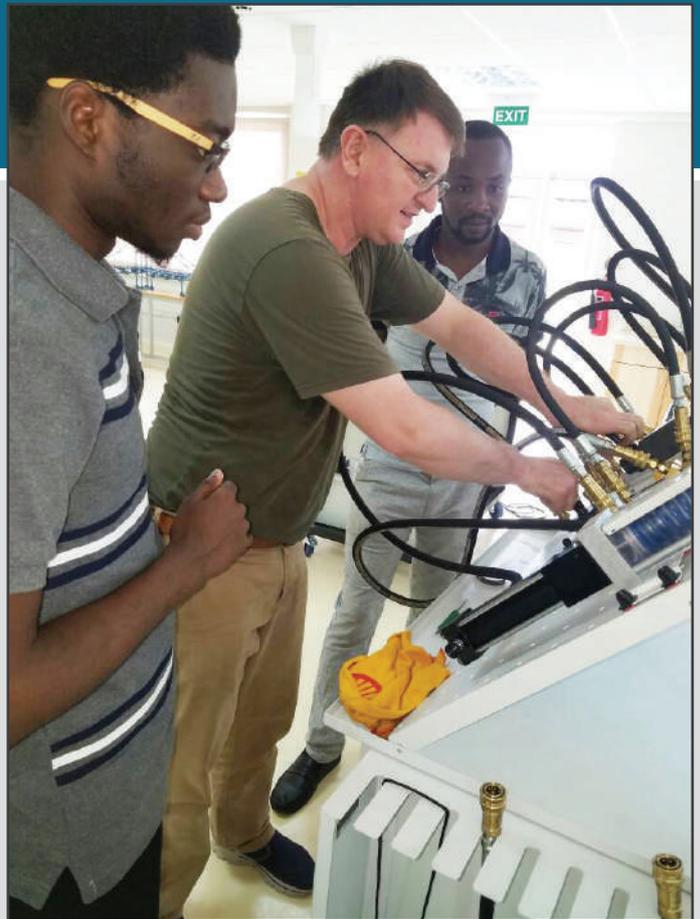


A.D. Astute Services

- Tendering under rigorous terms and conditions
- Global procurement
- Client relationship management
- Logistics management
- Equipment inspection and acceptance protocols
- Installation and Testing training
- Specialist manufacturers' engineers on-site training
- After Sales Support and warranty

Project Success:

Ashesi runs one of the best engineering programs in Africa and its highly ranked globally, attracting the best students from across the continent. The facilities have supported academic research, assignments and capstone project for engineering students.



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