Khalifa University is creating a culture of R&D excellence in the UAE, developing new scientific insights and technologies, and building the human capital required to support Abu Dhabi’s transformation into a knowledge-economy.
Khalifa University is home to the UAE’s leading research centers, many of which are housed in the university’s research institutes. KU’s 18 research centers address regional and global challenges in a systematic and targeted manner via engagement of world-class researchers and facilities. These research centers are at the heart of KU’s global leadership in use-inspired research.

Khalifa University has three flagship research institutes - the Masdar Institute, the Petroleum Institute, and the Robotics and Intelligent Systems Institute – that serve as interdisciplinary research units focused on long-term strategic priorities. The Masdar Institute focuses primarily on sustainable energy, water and the environment; the Petroleum Institute focuses primarily on upstream and downstream hydrocarbon exploration and production; and the Robotics and Intelligent Systems Institute focuses primarily on robotics, artificial intelligence, data science, and information and communication technologies.

KU’s research focus sectors are Clean and Renewable Energy, Hydrocarbon Exploration and Production, Water and Environment, Health, Aerospace, and Supply Chain and Logistics. Research in these sectors is enhanced by our research platforms of Robotics, AI and Data Science, Information and Communication Technologies, and Advanced Materials and Advanced Manufacturing.
Addressing national priorities and building on established strengths

**VERTICALS**
focused on multidisciplinary sectors aligned with UAE and Abu Dhabi priorities

- Clean and Renewable Energy
- Water and Environment
- Hydrocarbon Exploration and Production
- Healthcare
- Aerospace (Aero/Astro)
- Supply Chain and logistics

**HORIZONTALS**
focused on cross-cutting critical enablers in which KU has competitive advantage

- Information and communication Technologies (ICT)
- Robotics, Machine Intelligence and Data Science
- Advanced materials and manufacturing
Clean and Renewable Energy

Emirates Nuclear Technology Center (ENTC)

Advanced Power and Energy Center (APEC)
Water and Environment

Sustainable Bioenergy Research Consortium (SBRC)
PETROLEUM INSTITUTE CENTERS

Hydrocarbon Exploration and Production

Research and Innovation Center on CO2 and Hydrogen (RICH)

Center for Catalysis and Separation (CeCaS)
Healthcare

Khalifa University Center for Biotechnology (BTC)

Healthcare Engineering Innovation Center (HEIC)
Supply Chain and Logistics

Research Center for Digital Supply Chain and Operations Management (DSO)
Advanced Materials & Manufacturing

Aerospace Research and Innovation Center (ARIC)
UAE-Korea Joint R&D Technical Center (KUTC)

Advanced Digital & Additive Manufacturing (ADAM) Center
Clean and Renewable Energy and Water and Environment

Focused on clean energies, sustainability, water and environmental research

Institute Facilities

- **Masdar Institute Solar Platform (MISP)**
  Located in Masdar City, MISP provides critical tools and expertise required to test these concentrating solar power (CSP) and thermal energy storage (TES) systems at the one-of-a-kind 100 kW beam-down CSP facility.

- **Masdar Institute Field Station**
  Located in Masdar City, the Masdar Institute Field Station supports outdoor experiments and services as a living laboratory dedicated to the research and development of building technologies for high-performance buildings. It provides a controllable environment for the university’s researchers to test, demonstrate and fine-tune advanced energy systems and sustainable technologies.

Primary Campus Location

- **Sas Al Nakhl (SAN) Campus**
  Through Masdar Institute, Khalifa University is positioning advanced energy and sustainable technologies as a central focus of its integrated academic and research activities, which it is further developing by channeling the broad expertise of its faculty.
  - 60+ multi-disciplinary faculty affiliated with MI
  - 4 research centers
Emirates Nuclear Technology Center (ENTC)

A focused research and development National Center of Excellence to conduct unbiased technical analysis for all sectors employing nuclear technology.

The ENTC aims to develop the UAE’s nuclear technology capabilities and become an internationally recognized innovator of nuclear technology applications. The Center will maintain and enhance the national nuclear and radiological technology models, conduct technical analysis in the nuclear technology sectors (including energy, health, industrial, agriculture, security and forensics) to meet stakeholders’ developing needs. The ENTC will contribute to the development of human capacity and Emiratization by growing a research community who can work within the Center’s three main thematic areas of Nuclear Safety and Systems, Nuclear Materials and Chemistry and Radiation Safety and the Environment.

Researchers
12 faculty and 8 Postdoctoral Fellows and research staff

Research Thrusts
Nuclear Safety and Systems, Nuclear Materials/Chemistry, and Radiation Safety and the Environment

Labs and facilities

Partners
Federal Authority for Nuclear Regulation (FANR), Emirates Nuclear Energy Company (ENEC), Nawah Energy Limited, the Center for Advanced Nuclear Energy Systems (CANES) at MIT, the University of Strathclyde Advanced Nuclear Research Centre, Imperial College London, The University of Manchester, Korean Institute for Science and Technology (KAIST), Radiation Environment Management (r.e.m.), Munich, MIT Energy Initiative, Sandia National Laboratories, Nuclear AMRC at Sheffield University, Institut de Radioprotection et de Surete Nucleaire (IRSN) and Subatech at the University of Nantes
Advanced Power and Energy Center (APEC)

Crafting the future of power systems; supporting hybrid AC/DC grids, and providing optimal architecture for smart grid and transportation electrification.

The UAE has set many ambitious and strategic energy goals and launched many pioneering energy projects to achieve said goals. Achieving these targets requires the development of intellectual and human capital to provide innovative ideas and solutions for optimizing and advancing energy delivery and utilization.

In response to this, the Advanced Power and Energy Center (APEC) aims to craft the future of electric energy systems, allowing seamless and economical operation of high capacity renewable and clean energy resources while supporting hybrid AC/DC grids, and providing optimal architecture for smart grid and transportation electrification.

Researchers
15 Faculty members, 6 Postdoctoral fellows and 2 researchers

Research Thrusts
Renewable Energy Integration, Advanced Power Electronics Devices, Active Transmission and Distributions Systems, and High voltage and Dielectric Materials

Labs and facilities
Three major labs including Renewable Energy Systems and Control lab; Advanced Power Electronics Lab; and High Voltage and Dielectric Lab. State-of-the-art Real Time Simulators from RTDS and OPAL-RT

Partners
University of Waterloo, Siemens, GETRA, and TRANSCO
SBRC
Sustainable Bioenergy Research Consortium
Sustainable Bioenergy Research Consortium (SBRC)

Advancing the development of sustainable aviation biofuels; deriving alternative fuels from halophytic (saltwater tolerant) plants.

The Sustainable Bioenergy Research Consortium (SBRC) was established in Abu Dhabi in 2011 as a not-for-profit research center to advance the aviation industry’s commitment to sustainable business practices by developing technology with the promise of producing a clean, alternative aviation fuel supply. It was established by Masdar Institute (now Khalifa University), Etihad Airways, Boeing and Honeywell UOP. The founding members were later joined by ADNOC Refining, along with Safran, GE, and Bauer Resources.

The Seawater Energy and Agriculture System (SEAS) is the flagship project of the SBRC. This project combines an integrated system of aquaculture, halo-agriculture, and halo-agroforestry to produce sustainable biofuels for aviation and seafood. The first airplane flight fueled with jet fuel produced through the SBRC’s SEAS was carried out in January 2019.

Researchers
10 faculty and staff

Research Thrusts
Salt-tolerant and Arid Land Biomass, Releasing and Capturing Bioenergy, Synthesizing bioenergy, Supporting Technology, Sustainability and Bioenergy Policy

Labs and facilities
Seawater Energy and Agriculture System pilot facility

Partners
Etihad Airways, The Boeing Company, Safran, GE, ADNOC Refining, and Bauer Resources
Center for Membranes and Advanced Water Technology (CMAT)

Advancing the development of water technologies and hybrid systems, nanomaterials and membranes, and energy efficiency and sustainability of water processes.

The UAE faces growing water scarcity challenges that require development and implementation of long-term, sustainable, and integrated capacity in water and membrane technologies that are resilient, energy-efficient, environment-friendly and cost-effective. The Center for Membranes and Advanced Water Technology (CMAT) has been established to meet this need. CMAT has three objectives: (1) Develop and transfer novel and relevant advanced membrane and water technologies; (2) Develop a sustainable framework for integrated, multidisciplinary research to tackle water challenges in UAE and GCC; and (3) Support local and regional stakeholders in the water sector through targeted training, capacity building and technology transfer activities.

Researchers
16 faculty, 4 postdocs, and 5 graduate students

Research Thrusts
Advanced Water Technologies and Hybrid Systems, Nanomaterials and Membranes, and Energy Efficiency and Sustainability of Water Processes

Labs and facilities
Membrane synthesis and characterization, Membrane distillation (MD) process testing, Pressure-driven (Reverse Osmosis, ultrafiltration, microfiltration) process testing, Water sample analysis, Imaging facility, Pilot testing facility

Partners
Trevi Systems, Masdar (Abu Dhabi Future Energy Company), General Electric, Abu Dhabi National Oil Company (ADNOC), Emirates Steel Industries (ESI), Veolia, Abu Dhabi Water and Electricity Authority (ADWEA), University of Tokyo, Lehigh University, Emirates Float Glass Center, Sylicycle Inc., Massachusetts Institute of Technology (MIT), University of Illinois Urbana-Champaign, King Abdullah University of Science and Technology (KAUST), Federal University of Paraná (UFPR), Middle East Desalination Research Center (MEDRC), New York University Abu Dhabi (NYUAD), University of Calabria, Hanyang University, Katholieke Universiteit Leuven (KUL), Abengoa Water, Suez Environment, Engie lab

Dr. Hassan Arafat
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Hydrocarbon Exploration and Production

Focused on research for the oil and gas industry and with broader applications in energy and industry

Institute Facilities
- ADNOC Research and Innovation Center (ADRIC)
  39 labs covering reservoir rock characterization, reservoir fluid characterization, reservoir development, geophysics, gas processes, and materials and corrosion

Primary Campus Location: Sas Al Nakhl (SAN) Campus
Through Petroleum Institute, Khalifa University is positioning sustainable hydrocarbon exploration and production as a central focus of its integrated academic and research activities, which it is further developing by channeling the broad expertise of its faculty.
- 50+ multi-disciplinary faculty affiliated with PI
- 2 research centers
- State-of-the-art Research Labs: Enhanced Oil Recovery Lab, Core Analysis Lab, Thermodynamic Fluids Lab, Flow Assurance Lab, Catalysis Lab, and Central Analytical Facility

Dr. Saeed Alhassan
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Research and Innovation Center on CO2 and Hydrogen
Research and Innovation Center on CO₂ and Hydrogen (RICH)

Researching and developing novel carbon capture and utilization (CCU) technologies as well as hydrogen production, storage and distribution.

The research focus of the Research and Innovation Center on CO₂ and Hydrogen (RICH) is aligned with the strategic priority that Khalifa University and the UAE places on research and education for energy and the environment.

Researchers
15 faculty, 10 research scientists/postdocs, 8 research engineers/research assistants, 17 graduate students and 3 visiting researchers

Research Thrusts
CO₂ Capture, CO₂ Utilization, H₂ Production, Storage and Distribution

Labs and facilities
Solvent Screening Set Up and Vapor Liquid Equilibrium Labs, Materials Synthesis and Separation Lab, Photocatalysis Lab, Combustion Lab, and a network of latest-generation workstations for advanced computing

Partners
Center for Catalysis and Separation (CeCaS)

Addressing broad industrial catalysis challenges in membranes, reactors, materials, and renewable energy.

The chemical processes of catalysis and separation play a critical role in the petrochemical industry that is at the heart of the UAE’s economy, and are also important in the development and functions of membranes, reactors, materials, and renewable energy. The Center for Catalysis and Separation (CeCaS) is the UAE’s only research center focused on addressing the broad industrial challenges relating to these processes.

Researchers
12 faculty, 2 MSc students, 2 PhD students, 1 Post Doc, 2 Research Engineers

Labs and facilities
Gas Adsorption Lab, Membranes for Gas Separation Lab, Hydrocarbon catalytic processes lab, Sulfur-based catalytic processes lab, Preparation Lab

The center provides a multiscale integrated approach to solve scientific and engineering problems that spans across scales and disciplines through its research themes. With its strong connections to industry and with international collaborators, the center aims to grow steadily, contributing to both, fundamental and applied research, serving the needs of KU and the region while also educating new generations.

Research Thrusts
Catalysis for Energy and Chemicals, Separation and Adsorption Applications, and Multiscale Modeling

Partners
University of Western Macedonia (Greece), University of Surrey (UK), Demokritos National Institute of Research (Greece), KAIST (Korea), University of Zaragosa (Spain) and Chemical Institute of Sarriá (IQS, Barcelona, Spain)
Robotics, Machine Intelligence, Data Science and Information and Communication Technologies

Focused on research for next generation digital technologies

**Primary Campus Location:** Main Campus

Through the AI Institute, Khalifa University is positioning Artificial Intelligence as a central focus of its integrated academic and research activities, which it is further developing by channeling the broad expertise of its faculty.

- 60+ multi-disciplinary faculty affiliated with AAIS
- 6 research centers
- State-of-the-art research labs including Robotics, Cyber-Security and Systems-on-chip facilities

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KUCARS
KU Center for Autonomous Robotic Systems
KU Center for Autonomous Robotic Systems (KUCARS)

Researchers
50 faculty and staff

Research Thrusts
Robotics for Extreme Environments, Robotics for Industrial Applications, and Robotics for Infrastructure Inspection

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Robotics and autonomous systems will play a key role in the UAE’s Fourth Industrial Revolution, a strategic roadmap for which was unveiled in 2017 to position the country as a leader in innovation and future technologies. Robotics will also play a vital role in the UAE’s AI Strategy unveiled in October 2017.

In support of this vision, the KU Center for Autonomous Robotic Systems (KUCARS) integrates robotics related research activities at Khalifa University, to address some of the cutting edge R&D challenges in robotics.

The core mission of KUCARS is to carry out world class research and development in robotics evidenced through high quality research outputs, robotics-based innovation leading to entrepreneurial activities, engaging with local and international industry to tackle high impact societal problems, and developing human capacity in the UAE to support this vital economic sector.

Labs and facilities
Drone Lab, UGV Lab, Marine Robotics Labs, Computer vision Lab, Manufacturing Labs

Partners
Strata, Mubadala, EMAAR, RTA
People and businesses increasingly manage their activities via networked devices, giving rise to Cyber-Physical Systems (CPSs) that converge the physical and digital worlds. In this Internet-of-Everything (IoE) world, CPSs also generate and transmit massive amounts of data across networks, resulting in the need for cybersecurity to ensure that transactions can be trusted.

The Center for Cyber-Physical Systems (C2PS) builds on the notion that society will continue to evolve around the IoE, driven by transformation of data into actionable knowledge via computing hardware and emerging computer science approaches such as Deep Learning. Researchers at C2PS seek to deliver disruptive innovation in sectors that include energy, transportation, logistics, healthcare and manufacturing.

Researchers
18 faculty and 6 staff

Research Thrusts
Cybersecurity, Big Data Analytics and Artificial Intelligence, Networks and Communication Technology, and Computation Architectures

Labs and facilities
Cyber-security Lab with forensics equipment and unmanned aerial vehicles and data analytics lab

Partners:
Northrop-Grunman, Thales, ADT, DFLabs
The need for specialized electronic devices has been the emerging trend in research and industry especially for restricted technology (high frequency), mobile and Internet-of-Things, Artificial Intelligence, and security. The System-on-Chip Center (SoCC) responds to that need by acting as the only center in the UAE with a comprehensive range of expertise that can deliver integrated system-on-chip (SoC) solutions for various applications targeting near-market research.

The SoCC aims to be a world-leading research center in high performance, energy efficient, small form factor, and low cost electronic systems through innovation in low power digital processing, wireless communications, power management and sensor technologies.

- **Researchers**
  - 13 faculty and staff

- **Research Thrusts**
  - Efficient Hardware Accelerators for AI and hardware security
  - Broadband Communications Hardware
  - Energy Harvesting and Power Management hardware
  - Sensors and Design
  - Designing with Emerging Technology (RRAM)

- **Labs and facilities**
  - Industry standard CAD tools Cadence for chip and FPGA design, clean room and characterization lab, wire bonder and device characterization tools, network analyzer up to 67Ghz, function generator, oscilloscope and programmable power supplies

- **Partners**
  - Tawazun Technology and Innovation (TTI)
Khalifa University – Korea Advanced Institute of Science and Technology (KU-KAIST) Joint Research Center

Carrying out joint research on technologies that are shaping the Fourth Industrial Revolution, particularly in the areas of Smart Transportation and Smart Healthcare.

The KU-KAIST Joint Research Center has been established in April 2019 in order to develop an upgraded strategic partnership between KU and KAIST, and expand practical cooperation for new technologies that can generate high added value in the area of the 4th Industrial Revolution and commercialization into future growth in economy for both countries, UAE and Korea.

The joint center is also designed for promoting joint research through human resources exchange such as students, faculties and research staff.

Researchers
5 faculty

Research Thrusts
Smart Transportation and Smart Healthcare

Partners
KAIST in Korea

Dr. Daniel Choi
Center Director
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Emirates ICT Innovation Center (EBTIC)

Advancing intelligent systems technologies for Next Generation Networks (NGNs) and NGN-enabled ICT applications and services that enable the digital economy in the UAE.

EBTIC was established to be an Information and Communications Technology (ICT) research and innovation center. It aims to advance intelligent systems technologies for the Next Generation Networks (NGNs) and NGN-enabled ICT applications and services, in order to put in place the support infrastructure to facilitate, develop and enable the Digital Networked Economy in the UAE and beyond.

Researchers
35 including faculty, research staff, and graduate students

Research Thrusts
ICT, Artificial Intelligence, Operations Research

Labs and facilities
EBTIC Networking Laboratory, which houses state-of-the-art equipment for network synchronization and radio-access technologies.

Partners
Joint venture with Etisalat and British Telecom, with funding from the TRA / ICT Fund. Technology collaborations include Ministry of Education, Abu Dhabi Police, Abu Dhabi Department of Health, and Statistics Center of Abu Dhabi.
Other KU Research Centers
Center for Biotechnology (BTC)

Researching in the areas of genomics, bioinformatics and systems biology to understand and describe risk factors with impact on the major chronic diseases of the UAE population, in particular diabetes, cardiovascular disease and cancer.

The Center for Biotechnology (BTC) responds to the focus on priorities established for national healthcare sector formalized in the UAE Vision 2021. BTC’s research priority focusses on understanding and describing risk factors that impact on the major chronic diseases of the UAE population, in particular diabetes, cardiovascular disease and cancer. BTC operates a state-of-the-art laboratory to assist it in its quest to improve the body of information on genetic predisposition to diseases that are common in the various ethnic groups of the middle east.

In pursuit of its research objectives, the center continues to develop collaborative partnerships with local and international research groups in academia and in the clinic.

Researchers
10 faculty, 6 staff

Research Thrusts
Functional Biology, Genomics and Bioinformatics

Labs and facilities
State-of-the-art sequencing laboratory

Partners
Alain Fertility Center, Mafraq Hospital, National Rehabilitation Center, Abu Dhabi Police, Mohamed Bin Rashid University of Medicine and Science, Dubai Diabetes Center, Zayed University, Imperial College of London Diabetes Center in Abu Dhabi, Oxford University in UK, University of Western Australia in Australia, Newcastle University in UK

Dr. Habiba Alsafer
Center Director

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Healthcare Engineering Innovation Center (HEIC)

Developing novel methodologies, devices, and tools for the diagnosis, intervention/treatment, and rehabilitation of the wide spectrum of health challenges associated with cardiovascular disease.

Cardiovascular disease (CVD) is currently the leading cause of mortality and morbidity in the UAE. The Healthcare Engineering Innovation Center (HEIC) seeks to develop novel methodologies, devices, and tools for the diagnosis, intervention/treatment, and rehabilitation of the wide spectrum of health challenges associated with CVD.

HEIC collaborates with leading healthcare providers/regulators in the UAE to define and build population-specific, clinically implementable innovative approaches and engineering solutions. The center also has the framework to tackle other relevant health challenges in the UAE. HEIC provides advanced research and training opportunities in healthcare technology for highly qualified graduates from top universities in the UAE and overseas.

Researchers
20 faculty and 4 research staff

Research Thrusts
Diagnostic Engineering, Minimally Invasive Therapeutic Engineering, and Rehabilitation Engineering

Labs and facilities
State-of-the-art technology at multiple labs located in the Biomedical Department including the Electrophysiology lab, Cell Culture Lab, Cell and Molecular Biology Lab, Gait lab and Robotics Lab

Partners:
MIT, University of Western Australia, Biorobotics Institute of SSSA (Italy), Institute of Innovative Health Technologies IGHT (Germany), University of Rochester Medical Center (US), University of Limereck (Ireland), and Cleveland Clinic Abu Dhabi
Research Center for Digital Supply Chain and Operations Management (DSO)

Researchers
18 faculty, staff and students

Research Thrusts
Supply Chain Analytics, Digital Operations Management, and Future of Work in a Digital Enterprise

Researching digital supply chains and associated analytics, knowledge generation and knowledge management.

The KU research center on Digital Supply Chain and Operations Management is dedicated to research and education on extended enterprise operations and its digital transformation. The Center focuses on digital transactions, management, and optimization in multiple domains, such as maritime logistics, production lines, health care delivery systems.

DSO Center brings together experts in supply chain, data science and predictive analytics, along with digitally networked systems, to address the extended-enterprises as a nexus of integrated supply-chains, digital-operations management, and technology-ready human capital.

Labs and facilities
Supply Chain and Operations Management in Extended enterprise (SCORE) Laboratory, Immersive Reality Laboratory, and Smart Factory Laboratory

Dr. Mohammed Omar
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AEROSPACE RESEARCH AND INNOVATION CENTER

ARIC was established to undertake cutting-edge research in aerospace engineering. The center also acts as a global research hub – collaborating with leading universities across the world, developing research opportunities over a broad spectrum of areas, and assisting technology transfer and innovation possibilities across the aerospace sector.

Researchers
8 faculty and 8 research staff

Research Thrusts
Advanced thermoplastics, additive manufacturing of metal components, manufacturing robotics

Engaging in cutting-edge research in advanced materials, robotics and digital technologies for aerospace manufacturing.

Labs and facilities
The Composites Manufacturing Laboratory, the Automation Laboratory, and the Additive Manufacturing Laboratory.

Partners
Strata

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Dr. Cesare Stefanini
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Khalifa University Space Technology and Innovation Center (KUSTIC)

Researchers
8 thrust leads and 4 faculty in research projects

Research Thrust
- Sensors and Instrumentation
- Satellite Communications
- Command & Data Handling Systems
- Space Robotics
- Space Power and Energy Storage
- Mechanical Systems
- Spacecraft Dynamics and Control
- Space Mission Analysis and Design

The Khalifa University Space Technology and Innovation Center (KUSTIC) was established with the aim of becoming a center of excellence for the space sector in the UAE. KUSTIC builds on the current space-related capabilities developed within Khalifa University to support the space industry, as well as to use resources effectively to achieve the greatest impact opportunity for the UAE. The research projects undertaken at the KUSTIC will have a crucial role in building capabilities and creating a technical hub. Specifically, it will train UAE students in satellite design and manufacturing; conduct scientific research in space sector and applications; develop satellite manufacturing capabilities in the UAE; promote and inspire entrepreneurship in the space sector; and support the space science and technology initiatives of the UAE Space Agency.

Labs and facilities
- Satellite Ground Station
- Thermal Vacuum Testing Facility
- Vibration Testing Facility
- Class 10,000 Cleanroom

Partners
- Al YahSat Satellite Communications
- UAE Space Agency

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Advanced Digital & Additive Manufacturing (ADAM) Center

Developing advanced materials through fundamental and applied research directed toward additive manufacturing.

The ADAM center serves as an R&D and educational facility in the area of additive manufacturing (AM), commonly-known as 3D printing, and it is a platform to provide support to industries across the UAE to be at the forefront of the fourth industrial revolution. ADAM is the first R&D center in the UAE focusing on 3D printing.

The center includes research and educational activities that cover the full spectrum of AM including digital design through topology-optimization, understanding and optimizing 3D printing processes for enhanced properties of printed parts and performance, development of materials (filaments, resins, powder) for AM, and utilizing AM as a manufacturing technique for fabricating architected metamaterials and lightweight structural systems that could not be achieved through conventional manufacturing techniques. Additive manufacturing of multifunctional materials and structural systems at several length scales (macro to micro) will also be the focus of ADAM center.

Researchers
21 faculty, 4 postdocs, 3 research engineers, and 9 graduate students

Research Thrusts
Manufacturing Design and Processes, Advanced Materials for 3D Printing, 3D Architected Materials and Principles, 3D Printing Components and Structures, and Capacity Building within the UAE

Labs and facilities
Metallic AM Lab, Advanced Manufacturing Lab, Engineering Manufacturing Lab, Microscopy Suite, Materials Testing Lab, Machine Shop

Partners
New York University Abu Dhabi (NYUAD), Strata, Siemens, Etihad Airways, Korean Advanced Institute of Science and Technology (KAIST), Massachusetts Institute of Technology (MIT), University of Illinois at Urbana-Champaign, Brunel University London, Dassault Aviation (DA), US Air Force Institute of Technology (AFIT), University of Applied Sciences (SUPSI)- Switzerland, Abu Dhabi Police.
KUTC
UAE-Korea Joint R&D Technical Center
UAE-Korea Joint R&D Technical Center (KUTC)

The KUTC was launched by KU and the Korea Basic Science Institute (KBSI), with support from the Korea Ministry of Science and ICT. It will initially cover areas including advanced materials especially in energy, oil and gas, and catalysts, as well as characterization of semiconductor materials and devices, in addition to materials for bio-medical and energy applications.

**Researchers**
1 KU faculty, 4 faculty from Korea Basic Science Institute (KBSI) faculty, and 1 research manager

**Research Thrusts**
Advanced Materials – Energy, Oil & Gas, Catalysts, Biomedical, and Semiconductor Devices/Characterization

**Labs and facilities**
KU Electron Microscopy Suite

**Partners**
Abu Dhabi Department of Economic Development, Korea Ministry of Science and ICT, Korea National Research Council of Science & Technology