

Air University Islamabad - ORIC Profile

(For University Faculty & Students Conference on Research Commercialization)

1. Department Name

Office of Research, Innovation, and Commercialization (ORIC)

2. Key Personnel

- Director: Air Cdr. Fawad Zahir
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 - Manager Research Management: Mr. Qazi M. Raheel Anjum
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 - Communications Officer: Ms. Kinza Ayaz
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 - PA to Director: Mr. M. Nouman Ali
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3. Contact Information

- General Email: oric@au.edu.pk
- Website: https://www.au.edu.pk/pages/ORIC/oric_home.aspx

4. Facilities

Air University Business Incubation Center (AUBIC) (Under Development)

The AUBIC aims to support students, faculty, and alumni in transforming innovative ideas into viable enterprises. Planned facilities include:

- Workstations, Meeting Rooms, Seminar Halls
- High-speed Wi-Fi
- Access to Dry and Wet Labs
- Printing Services
- Workshops and Seminars
- Mentorship for Final Year Projects
- Investor Access and Centralized Mail Services

5. Research & Commercialization Projects

Completed Projects:

- National Center in Cyber Security (NCCS) – PKR 257.78 million
- National Center in Robotics & Automation (NCRA) – PKR 84.75 million
- Assistive Device for Paraplegic Patients – PKR 14 million
- MEMS Sensor Design and Test Lab – PKR 84.75 million
- HEC-Funded Projects Total – Over PKR 559 million

Ongoing Projects:

- HEC-Funded
 - Numerical Tools for Epidemiology and Fluid Dynamics – PKR 5.27 million
 - Personalized Care Plans for At-Home Patients – PKR 4.88 million
 - NESCOM-Funded
 - Quantum Cryptography Training – PKR 67.73 million
 - Hardware-Oriented Cyber Threats Study – PKR 75.54 million
 - IGNITE-Funded
 - IoT-Based Patient Monitoring System – PKR 0.065 million
 - Smart Indoor Air Quality Monitoring – PKR 0.031 million
 - Digital Air Warfare – PKR 0.050 million
 - Electric Bike with Regenerative Braking and IoT – PKR 0.075 million
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6. Industry Linkages & Revenue

- Collaborations:

ORIC actively collaborates with major stakeholders including:

- Higher Education Commission (HEC)
 - IGNITE
 - Pakistan Science Foundation (PSF)
 - British Council
 - Ministry of Science & Technology (MoST)
 - Various universities and tech companies
- Revenue Generation:

While specific figures are not publicly disclosed, the volume and diversity of project funding reflect strong revenue generation and industry engagement.

National University of Sciences and Technology (NUST), Islamabad

Research Commercialization Profile for Conference Use

1. Department Name

Office of Research, Innovation and Commercialization (ORIC)

2. In-Charge / Key Personnel

- Pro-Rector (Research, Innovation & Commercialization): Dr. Rizwan Riaz
 - Email: prorectorric@nust.edu.pk
 - Phone: +92-51-90856201
- Director Innovation and Commercialization: Mr. Muhammad Anwer Fareid
(Direct email not publicly listed)
- Director Research (Defence): Dr. Wasim Khaliq
(Direct email not publicly listed)
- Director Research: Dr. Hamood ur Rahman SI(M)
(Direct email not publicly listed)
- General Manager TechOne (Technology Incubation Center): Mr. Emmad Ehsan
(Direct email not publicly listed)
- General Manager NUST Intellectual Property Office (NIPO): Ms. Eram Zaidi
(Direct email not publicly listed)

3. Emails and Telephone Numbers

- General ORIC Email: oric@nust.edu.pk
- General ORIC Phone: +92-51-90856200
- Pro-Rector RIC Office Phone: +92-51-90856201
- Postal Address: CIE Building, NUST Campus, H-12, Islamabad, Pakistan

4. Facilities

- National Science & Technology Park (NSTP)
 - Pakistan's first university-hosted science park, launched in December 2019
 - Hosts tech companies, R&D centers, and startups
 - Facilitates academia-industry-government collaboration
- TechOne – Technology Incubation Center
 - Established in 2005
 - Supports student/faculty startups through mentorship, funding access, and office space
 - One of the leading university incubators in Pakistan
- NUST Intellectual Property Office (NIPO)
 - Manages intellectual property generated within the university
 - Assists faculty and students with patent filing, copyrights, and trademarks

- Technology Transfer Office (TTO)
 - Facilitates licensing of research and technology developed at NUST
 - Connects researchers with commercial partners
 - Professional Development Centre (PDC)
 - Offers industry-relevant short courses, training, and development programs
 - Career Development Centre (CDC)
 - Provides job placement, career counseling, and skill enhancement for students
 - Corporate Advisory Council (CAC)
 - Links academia and industry to align curricula with market demands
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5. Current and Past Research & Commercialization Projects

Commercialization-Ready Products:

- Vital signs monitoring vest
- Combat and civilian helmets
- Smart sensors for human health tracking
- IoT-enabled smart luggage bags
- Nonwoven sustainable fabric filters
- Indoor and outdoor composite furniture
- Compression socks designed for comfort and circulation
- Lightweight bulletproof vests

Collaborative Research Projects:

- Active partnerships with:
 - CERN, Caltech, Stanford University
 - Microsoft, IBM, Intel
 - Research Areas: Grid computing, cyber security, quantum cryptography, medical devices, sustainable tech
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6. Other Information (Industry Linkages, Revenue, etc.)

- Industry Linkages:
 - Strong collaborations with:
 - Higher Education Commission (HEC)
 - IGNITE
 - Pakistan Science Foundation (PSF)
 - Ministry of Science & Technology (MoST)
 - British Council
 - Local and international industry partners
 - The Corporate Advisory Council (CAC) plays a key role in fostering these linkages
- Revenue & Funding:
 - While NUST does not publicly release revenue data, the university secures significant funding from national and international R&D grants

Funding is also generated through licensing, consultancy, training programs, and startup incubation

NED University of Engineering and Technology (NEDUET), Karachi

Research Commercialization Profile for Conference Use

1. Department Name

- Office of Research, Innovation & Commercialization (ORIC)

Website: <https://oric.neduet.edu.pk>

- Directorate of Industrial Liaison (DIL)

Website: <https://www.neduet.edu.pk/DIL>

2. In-Charge / Key Personnel

- Dr. Riaz Uddin

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- Mr. Ayaz Ali Pitafi

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Phone: +92-21-99261261 Ext: 2274, 2218

3. Emails and Telephone Numbers

- General ORIC Contact:

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- DIL Contact:

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- University Address:

NED University of Engineering & Technology

University Road, Karachi 75270, Pakistan

4. Information on Facilities

Business Incubation Centre (BIC)

- Focus Areas: AgriTech, AutoTech, FinTech, HealthTech, SmartTech
- Facilities: Furnished office space, internet, labs access, mentorship, investor networks

Key Research & Innovation Facilities and Labs:

- Centre for Smart Grid Studies
- Centre for Advanced Studies in Renewable Energy (ASURE)
- National Centre for Artificial Intelligence
- National Centre for Robotics and Automation

- National Centre for Cyber Security
- Virtual Reality Centre
- High-Performance Computing Centre
- Product Development Centre
- DICE Energy Centre
- Centre for Software Research and Development (CSRD)
- Electronic Design Centre
- Heritage Cell (Architecture)

Each center supports cutting-edge research, prototype development, and industrial collaboration.

5. Current and Past Research & Commercialization Projects

Highlighted R&D Projects:

- Advanced Driver Assistance System (ADAS):
Vision transformer and deep learning-based object/lane intention detection.
- Wind Energy Forecasting:
Spatio-temporal models using deep learning for national energy planning.
- Deforestation Monitoring:
Satellite data fusion and AI for environmental modeling.
- Smart Irrigation Systems:
Remote sensing and machine learning for optimized irrigation schedules.
- Digital Spring Testing Machines:
Enhancing legacy mechanical systems with digital control and measurement.

- Virtual Reality for Safety Training:
VR-based simulation for accident prevention on construction sites.
- Energy Efficiency Audits:
Machine learning-driven models for smart grid management and cost reduction.

Each project is developed with a focus on application, industry collaboration, and eventual commercialization.

6. Other Information: Industry Linkages, Revenue, etc.

Industry Linkages:

- Close collaboration with government bodies, industrial associations, and tech companies.
- DIL facilitates industry-academia partnership via:
 - Internship and training programs
 - Joint research initiatives
 - Technical consultancy services

Revenue and Funding:

- While specific revenue numbers are not publicly disclosed, NEDUET receives:
 - Competitive research grants from HEC, PSF, Ignite, and international agencies
 - Revenue through consultancy, testing services, and licensing agreements
 - Startup incubation generates funding through seed investments and external partners

Intellectual Property (IP) Development:

- ORIC actively promotes IP awareness, helping faculty and students file for patents, copyrights, and trademarks.
- Multiple IPs filed in the last 3 years in areas such as automation, software, and sustainable energy.

Sukkur Institute of Business Administration (Sukkur IBA University)

Research Commercialization Profile for Conference Use

1. Department Name

- Office of Research, Innovation & Commercialization (ORIC)

Website: <https://www.iba-suk.edu.pk/oric/index>

2. In-Charge / Key Personnel

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4. Information on Facilities

- Fabrication Laboratory (Fab Lab):

A facility supporting prototyping and product development, enabling practical implementation of research projects.

Note: Specific details about the Fab Lab's equipment and capabilities are not publicly listed.

- Functional Offices:

ORIC operates from Office No. 10, 2nd Floor, Knowledge Center, providing strategic and operational support for research activities.

(oric.iba-suk.edu.pk)

- Ethical Institutional Review Board (EIRB):

Oversees ethical standards in research, ensuring compliance with national and international guidelines.

(oric.iba-suk.edu.pk)

5. Current and Past Research & Commercialization Projects

Research Projects Completed (2023):

1. A Novel Deep Learning and Computer Vision Intelligent Based Application for Post-Flood Disaster Management
 - Principal Investigator: Prof. Dr. Ghulam Mujtaba Shaikh (Department of Computer Science)
 - Funding Agency: SRSP-SHEC
 - Date: 02-06-2023
2. AI-Based Flood Alert Chatbot
 - Principal Investigator: Prof. Dr. Engr. Madad Ali Shah (Department of Electrical Engineering)
 - Funding Agency: SRSP-SHEC
 - Date: 02-06-2023
3. The Scope, Profile, and Psychological Correlates of Homelessness in Sindh
 - Principal Investigator: Dr. Ruksana Gul Gilal (Department of Business Administration)
 - Funding Agency: SRSP-SHEC
 - Date: 02-06-2023

4. Taking Responsibility on Shoulders: An Analysis of Business Strategies and the Way Forward to Lessen the Adverse Impact Towards Climate in Pakistan

- Principal Investigator: Dr. Obaid Rashdi Syed (Department of Business Administration)
- Funding Agency: SRSP-SHEC
- Date: 02-06-2023

(iba-suk.edu.pk)

Commercialization Project (2019-2020):

- Fabrication Lab Project
 - Principal Investigator: Mr. Fida Hussain Memon (Assistant Professor)
 - Collaborating Partner: Government of Sindh
 - Funding Agency: Government of Sindh
 - Generated Revenue: PKR 60,200

(iba-suk.edu.pk)

6. Other Information: Industry Linkages, Revenue, etc.

- Industry Collaborations:

Sukkur IBA University has established links with corporate and industrial sectors to facilitate research commercialization and practical application of research outcomes. Specific partnerships and collaborative projects are not detailed in the available information.

- Revenue Generation:

Revenue has been generated through projects like the Fabrication Lab, with

documented earnings of PKR 60,200 in the 2019-2020 period. Detailed audited financial statements are not publicly available.

- Intellectual Property (IP) Management:

ORIC oversees the commercialization of research, including licensing and IP sales. Specific patents, trademarks, or design patents are not listed in the available information.

The University of Lahore (UOL)

Research Commercialization Profile

1. Department Name

- Office of Research, Innovation & Commercialization (ORIC)

Website: <https://uol.edu.pk/oric/>

2. In-Charge / Key Personnel

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- Mr. Muhammad Asif

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3. Emails and Telephone Numbers

- General ORIC Contact:

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Phone: +92-42-111-865-865

4. Information on Facilities

- Agri-Biotechnology Park:

A dedicated facility for research and development in agricultural biotechnology, aiming to produce practical outcomes that benefit the agricultural industry.

- Centre for Research in Molecular Medicine:

This facility focuses on advanced research in molecular medicine, with the goal of bringing cutting-edge laboratory research into clinical practice.

- Radiology Research Section:

This department specializes in research for improving diagnostic imaging techniques in radiology.

- Biotechnology and Engineering Laboratories:

These laboratories are equipped for biotechnology and engineering research, fostering innovation in the fields of genetics and applied engineering.

Note: Detailed equipment lists or descriptions of these facilities are not publicly available.

5. Information on Current and Past Research & Commercialization Projects

Completed Research Projects:

1. Pre-clinical & Clinical Evaluation of a Candidate Drug for Metastatic Breast Cancer

- Principal Investigator: Dr. Asim Pervaiz
 - Funding Agency: Higher Education Commission (HEC)
 - Duration: 2018–2021
 - Funding: PKR 4,712,757
 - Status: Completed
2. Expression Analysis of Interleukin-28 and Interferon Stimulating Genes in Pakistani HCV Patients
- Principal Investigator: Dr. Saba Khaliq
 - Funding Agency: HEC
 - Year: 2011
 - Funding: PKR 500,000
 - Status: Completed
3. Association of Adipokines, FGF23 and Their Genetic Variants with Bone Mineral Density in Postmenopausal Women
- Principal Investigator: Dr. Saba Khaliq
 - Funding Agency: HEC
 - Duration: 2019–2022
 - Funding: PKR 2,123,876
 - Status: Completed
4. Molecular Characterization of Colistin & Klebsiella Pneumoniae Carbapenemases Bacterial Resistance
- Principal Investigator: Dr. Shah Jahan
 - Funding Agency: HEC
 - Duration: 2020–2023
 - Funding: PKR 1,538,274

- Status: Completed

Ongoing Research Projects:

- Development of a Diagnostic Kit for Early Detection of Colon Cancer
 - Principal Investigator: Dr. Ayesha Anwar
 - Funding Agency: HEC
 - Status: Ongoing
- Development of Bio-based Pesticides for Crop Protection
 - Principal Investigator: Dr. Farhan Iftikhar
 - Funding Agency: HEC
 - Status: Ongoing

6. Other Information: Industry Linkages, Revenue Generation, etc.

- Industry Collaborations:

UOL's ORIC has established collaborations with various industries for research commercialization. Specific collaborations and partnership details are not publicly disclosed. However, UOL has worked with biotech companies, healthcare firms, and the agriculture sector to facilitate the practical application of research outcomes.

- Revenue Generation:

Research projects have generated revenue in the range of PKR 500,000 to over PKR 4 million. Commercialization of biotech patents and diagnostic tools are also in progress but not fully detailed.

- Intellectual Property (IP) Management:

ORIC actively supports the commercialization of research outcomes by managing

intellectual property, including patents and licensing agreements. Specific patents or trademarks have not been disclosed.

- Industry-Academic Collaboration Programs:

UOL's collaboration with industry partners includes joint research ventures, product development, and technology transfer initiatives. These collaborations help enhance the practical application of academic research in commercial settings.

University of Agriculture, Faisalabad (UAF)

Research Commercialization Department Profile

1. Department Name

- Office of Research, Innovation and Commercialization (ORIC-UAF)

Website: <https://oric.uaf.edu.pk>

2. In-Charge / Key Personnel

- Prof. Dr. Muhammad Imran Arshad

Director, ORIC-UAF

(Direct contact not publicly listed—please use general ORIC email.)

- Dr. Tariq Javed

Additional Director, ORIC

- Dr. Naeem Akhtar

Focal Person (IP/Commercialization), ORIC

3. Emails and Telephone Numbers

- General ORIC Contact:

Email: oric@uaf.edu.pk

Phone: +92-41-9200183 Ext. 3600, 3601

- University Main Website:

4. Information on Facilities

- Endowment Fund Secretariat (EFS-UAF):

Provides financial support and matching grants for R&D commercialization and industry-academic collaboration. Supports innovation-based projects and IP development.

Website: <https://efsuaf.org>

- Business Incubation Centre (BIC-UAF):

Facilitates startups through incubation support, office space, mentorship, and IP/legal services. Focus areas: agri-tech, food processing, clean energy.

- Engro Learning Centre (ELC):

A solar-powered facility launched in collaboration with Engro Fertilizers. It enhances academia-industry collaboration and improves agricultural training and outreach.

- Technology Development and Transfer Center (TDTC):

Converts research into usable commercial products and prototypes. Offers packaging, branding, and market access support.

5. Current and Past Research & Commercialization Projects

Flagship Commercialization Projects (via ORIC & EFS):

1. IC Engines for Power Generation from Agricultural Waste
 - Funding: PKR 2.4 million
 - Year: 2015–2016

- Objective: Power generation using agri-waste-fueled internal combustion engines
 - Status: Completed
2. Solar-Assisted Multi-Crop Dryers
- Funding: PKR 5.5 million (USPCAS-AFS)
 - Year: 2017–2019
 - Objective: Development of low-cost solar dryers for fruits and vegetables
 - Status: Completed
3. Food Processing Technologies for Rural Women Entrepreneurs
- Funding: PKR 7.6 million (ICDD, Germany)
 - Objective: Rural women's income generation through solar-based food processing
 - Status: Completed
4. Biogas and Hybrid Energy Systems
- Objective: Development of energy-efficient digesters and hybrid power systems for rural farms
 - Status: Completed
5. Mobile Soil Testing Labs
- Objective: On-site soil testing and diagnostics for precision agriculture
 - Output: Used by farmers to enhance productivity based on accurate soil data
6. Post-Harvest Technology Innovations
- Projects: Grading machines, packaging units, and cold storage innovations
 - Status: Some licensed to small and medium-scale agri-enterprises
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6. Other Information (Industry Linkages, Revenue, IP, etc.)

- Industry Linkages:

UAF has formal collaborations with leading national and international industry partners:

- Engro Fertilizers
- Punjab Agriculture Department
- Pakistan Agricultural Research Council (PARC)
- ICDD (Germany)
- USAID, FAO, and HEC Pakistan

These linkages support student internships, industrial research, training programs, and technology deployment in real farming conditions.

- Revenue Generation:

- The Endowment Fund Secretariat (EFS) supports commercialization via matching grants and co-financing.
- Technologies developed at UAF have generated revenue through prototype sales, farmer-based applications, and startup commercialization.
- Some projects, such as the solar dryers and mobile soil labs, generated PKR 4–6 million+ in field-level adoption and orders.

- Intellectual Property (IP) & Patents:

- UAF has filed patents in the areas of solar dryers, biopesticides, food preservation, and energy systems.
- ORIC's IP Cell provides full legal and technical support for patent filing, copyright, and technology licensing.

- Community Outreach & Entrepreneurship:

- BIC supports rural entrepreneurs (with focus on women) by helping them scale innovations in food processing, packaging, and agri-solutions.
- Regular training camps, field demos, and startup competitions are conducted.

- UAF technologies have reached rural Punjab, Sindh, and Khyber Pakhtunkhwa via tech transfer missions.

Note:

The University of Agriculture, Faisalabad is widely recognized as one of Pakistan's top institutions in agriculture and applied research commercialization. Its ORIC office, in coordination with the Endowment Fund Secretariat and incubation centers, plays a critical role in translating academic research into marketable solutions. Through industry partnerships, patent-backed innovation, and field-oriented testing, UAF has created a sustainable model for research-driven economic impact in agriculture and food systems.

Aga Khan University (AKU), Karachi

Research Commercialization Profile

1. Department Name

- Office of Research, Innovation and Commercialisation (ORIC)

Established in 1999, the Aga Khan University's ORIC was one of the first six university ORICs recognized by the Higher Education Commission (HEC) of Pakistan in 2011. It is the central coordinating body for research, innovation, grants, and commercialization activities across all AKU campuses.

2. In-Charge / Key Personnel

- Director ORIC – Adnan Altaf
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 - Phone: +92 21 3493 0051
 - Website: <https://www.aku.edu/research/oric/>
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4. Facilities and Infrastructure

- Technology Innovation Support Centre (TISC):

Established in February 2018 in collaboration with the World Intellectual Property Organization (WIPO), TISC supports faculty, students, and staff with the creation, protection, and commercialization of intellectual property (IP).

Services Provided:

- Assistance in IP search and landscaping
 - Development of innovative ideas
 - Filing of local and international patent applications
 - IP training sessions and seminars
- Key Achievements:
 - Filed multiple patent applications in Pakistan and the USA
 - Secured six biomedical patents from the U.S. Patent Office
 - Regularly organizes IP awareness sessions
 - Research Laboratories:
 - Advanced laboratory infrastructure including BSL-2 and BSL-3 laboratories

- Collaborative research spaces for faculty and external partners
 - Innovation Platforms:
 - Regular hackathons and innovation challenges
 - Guidance on startup development and commercialization pathways
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5. Research and Commercialization Projects

- Grants Administration Training (May 2023):

Conducted detailed sessions on PeopleSoft Checklist to improve internal grants processes.
- HEC Technology Development Fund Awareness Seminar (Dec 2022):

Promoted multidisciplinary technology-based innovation across departments.
- 3D Printed Craniotomy Training Model Project (Sep 2022):

Designed and implemented 3D-printed skull models for surgical training in partnership with PASNO (Pakistan Society of Neuro-Oncology).
- Intellectual Property Rights Workshop (May 2022):

National and international IP experts conducted training for faculty and researchers on IP laws, processes, and benefits.
- Patent Support and Filing:

Supported biomedical engineering innovations; examples include AI-assisted diagnostic tools and wearable health devices.
- Ongoing Projects:
 - Digital health applications
 - Vaccine storage technologies
 - Infectious disease diagnostics

- AI for early cancer detection
-

6. Other Information

- Industry Linkages:
 - Collaborations with industry, healthcare, and biotech sectors in Pakistan and internationally
 - Longstanding partnerships with Aga Khan Development Network (AKDN) institutions
 - Agreements with University of Washington and other institutions for joint research
 - Revenue and Grants:
 - Between 2013 and 2023, AKU secured approximately 1,300 external research grants totaling over USD 411 million
 - More than 11,000 research publications and 400,000+ citations
 - Revenue from intellectual property licensing and technology transfer initiatives is growing through international patenting
 - Global Research Presence:
 - Research and development presence in Pakistan, East Africa, Afghanistan, and the UK
 - Focus areas include maternal and child health, infectious diseases, health systems, and education
-

Note:

The Office of Research, Innovation and Commercialisation (ORIC) at Aga Khan University plays a pivotal role in research promotion, funding, intellectual property management, industry collaboration, and commercialization. Recognized by HEC, it is responsible for

shaping the research ecosystem and driving AKU's mission to produce research that improves lives globally.

Bahria University, Islamabad

Research, Innovation & Commercialization (RIC) Profile

1. Department Name

- Research, Innovation & Commercialization (RIC)
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2. In-Charge / Key Personnel

- Director, RIC: Dr. Raja Mazhar Hameed
 - Pro-Rector (Research, Innovation & Commercialization): Rear Admiral Ahmad Fauzan HI (M)
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-

4. Facilities and Infrastructure

- Business Incubation Center (BIC):

- Supports the development of startups by providing mentorship, training, and funding opportunities for students and alumni entrepreneurs.
 - Maritime Science & Technology Park:
 - Focuses on innovations in maritime technology and related fields, offering research and development opportunities in cooperation with the maritime industry.
 - Pak-China Study & Research Center:
 - A platform for research and collaboration between Pakistani and Chinese academic institutions in the areas of business, technology, and other sectors.
 - Artificial Intelligence Research Facilities:
 - Dedicated spaces for the research and application of Artificial Intelligence technologies in various industries, including healthcare, manufacturing, and finance.
 - Research Laboratories:
 - Equipped with cutting-edge tools and resources, these labs support research in engineering, medical sciences, computer science, and environmental sustainability.
 - Student Clubs and Career Advisory Services:
 - These clubs provide student engagement opportunities, allowing them to participate in projects that promote commercialization of research. Career advisory services support student placements and industry connections.
 - Medical, Gymnasium, and IT Services:
 - The university offers comprehensive facilities for student health, physical fitness, and IT support, ensuring a well-rounded environment for students.
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5. Research and Commercialization Projects

- HEC Ranking:

- Bahria University has consistently ranked among the top universities in Pakistan for research output, innovation, and commercialization activities.
 - Collaborations:
 - Bahria University has developed a strong network of national and international collaborations with institutions such as HEC, UNESCO, and various global research organizations.
 - Startup Support:
 - The RIC department assists faculty, students, and alumni in incubating their research-driven ideas and technologies into viable commercial products. The center provides space, mentorship, funding, and networking opportunities.
 - Maritime Research:
 - Bahria has established a stronghold in maritime research, focusing on sustainable technologies and innovations that address the unique challenges in Pakistan's maritime sector.
 - Current and Past Projects:
 - Development of energy-efficient technologies in the defense and maritime sectors.
 - AI-based solutions for smart cities and environmental sustainability.
 - Biotechnology innovations in the medical field.
 - Research Excellence in Engineering and Technology:
 - Bahria University has pioneered several research projects in engineering fields such as mechanical engineering, AI, and telecommunications, leading to the development of patents and commercialized products.
-

6. Industry Linkages and Revenue Generation

- Industry Partnerships:
 - Bahria University has successfully collaborated with industries in the defense, maritime, health, technology, and engineering sectors, facilitating the

commercialization of research outcomes and driving industry-academia partnerships.

- Revenue Streams:
 - Technology Commercialization: Revenue generated from patent licensing, research partnerships with industries, and the commercialization of university-developed technologies.
 - Industry Collaborations and Projects: Revenue is also generated from long-term industry research projects, consultancy, and providing training to industry professionals.
 - Startup Incubation: Bahria University's incubation center also generates income through its investment in the development of student-led startups.
- International Collaborations:
 - Bahria has strong international partnerships with leading institutions, including Pak-China collaborations, as well as agreements with international research funding bodies.
- Innovation and Entrepreneurship Awards:
 - Bahria University has received recognition for fostering a culture of innovation and entrepreneurship, winning national and international awards for its work in research commercialization.

COMSATS University Islamabad (CUI)

Office of Research, Innovation & Commercialization (ORIC) – Profile

1. Department Name:

Office of Research, Innovation & Commercialization (ORIC)

2. In-Charge / Key Personnel:

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 - Website: <https://ww2.comsats.edu.pk/ORIC>
-

4. Facilities and Infrastructure:

- Student Startup Business Center (SSBC): Encourages student-led entrepreneurship.
- Cubator-1ne: Technology incubator supporting early-stage startups with mentoring and seed funding.
- Business Incubation Center (BIC): Converts R&D into commercial ventures.
- Prototype Development Facility: Supports the creation and testing of physical product prototypes.
- Technology Innovation Support Center (TISC): Assists with IP protection and patent processes.

- Research & Development Lab: Provides technical R&D support for faculty and students.
-

5. Research and Commercialization Projects:

- Patent Licensing Agreement: Signed with Cotton Craft Pvt. Ltd. for synthetic skin/wound healing technologies.
 - CRGP (COMSATS Research Grant Program): Up to PKR 300,000 for 1–2 year faculty-led projects.
 - Research Productivity Awards (RPA): 1219 faculty awarded for high-impact research.
 - Patent Portfolio: 61 patents filed, 13 granted, 2 trademarks registered.
 - International Collaborations: Joint initiatives like Green Economy Congress with Al-Quds University.
-

6. Industry Linkages and Revenue:

- Industry Partners: PSO, OGDCL, Fauji Fertilizer, PEL, LUMS, PAEC, Qarshi Industries, AKU, POF Wah, MoST, PIEAS, NTS, UET Peshawar, Attock Refinery, AERONARC, QAU, Wilson Pharmaceutical.
- Recognition: 3G Research Excellence Award (2018).
- Revenue Sources: Generated through IP commercialization, startup incubation, R&D consultancy, and partnerships.

Dow University of Health Sciences (DUHS), Karachi

Office of Research, Innovation & Commercialization (ORIC) – Comprehensive Profile

1. Department Name

Office of Research, Innovation & Commercialization (ORIC)

Established in 2011, ORIC at DUHS aims to promote research and innovation within the university, supporting research advances to sustain DUHS's reputation as a distinguished public university.

2. In-Charge / Key Personnel

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- Mr. Khurshid Iqbal

Managing Editor, Journal of DUHS

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 - Emails:
 - research@duhs.edu.pk
 - oric@duhs.edu.pk
-

4. Facilities and Infrastructure

- Institutional Review Board (IRB):

Reviews research proposals to ensure the rights and welfare of human subjects are protected. Meetings are held monthly, reviewing 15-20 proposals each session.
- Board of Advanced Studies and Research (BASR):

Established in 2005, it oversees postgraduate studies, approving synopses, projects, theses, and policy decisions.
- PhD Advisory Committee & Master's Scientific Committee:

Provide guidance to PhD and Master's candidates to ensure quality research within stipulated timeframes.
- Dow Institute for Advanced Biological & Animal Research (DIABAR):

A state-of-the-art facility offering advanced laboratory services, including pre-clinical and toxicological testing, vaccine development, and biological manufacturing. Notable projects include anti-snake venom production and indigenous rabies vaccine development.
- Sindh Infectious Disease Hospital & Research Center (SIDH&RC):

A 175-bed hospital approved by the Drug Regulatory Authority of Pakistan for Phase 1–4 clinical trials, equipped with specialized units and facilities for infectious disease

research.

5. Research and Commercialization Projects

- Faculty Research Funding:

DUHS receives research funding from the National Research Program for Universities (NRPU) by HEC. Between 2020-2022, ORIC administered ten NRPU grants and nine HEC grants awarded to faculty members.

- Annual Research Day:

An event where faculty and student research are presented through posters. Participants from various institutions are invited, and the best research is awarded and presented in the main session.

- Pre-Research Day Workshops:

Organized during the week of the annual research day, offering workshops on topics like data analysis using SPSS, sample size calculation, questionnaire development, and plagiarism avoidance.

- Summer Short Courses:

Conducted annually since 2012, covering Applied Biostatistics, Fundamentals of Epidemiology, Research Methodology, and Statistical Software for Health Sciences.

- COVID-19 Research:

DUHS researchers identified human gene variants potentially offering resistance against COVID-19 and suggested local IVIG from recovered patients as a treatment approach.

6. Industry Linkages and Revenue Generation

- Public-Private Partnerships:

ORIC facilitates collaborations between DUHS and industry partners to promote

research commercialization and innovation.

- Entrepreneurship Promotion Programs:

Through various initiatives, DUHS supports startups by providing necessary resources and mentorship, aiming to enhance the entrepreneurial ecosystem in health sciences.

- Revenue Generation:

While specific revenue figures are not publicly disclosed, DUHS generates income through research grants, commercialization of research outputs, and services offered by its advanced research facilities.

Additional Information

- Collaborations and Partnerships:

- Memorandum of Understanding (MoU) with University of Karachi: In May 2024, DUHS signed an MoU with the University of Karachi's Department of Biochemistry. This collaboration led to the establishment of the Computational Biochemistry Research Laboratory at DUHS, funded by the University of Karachi Alumni Association in Baltimore, USA.

- Industry Engagement:

- Health Asia Exhibition 2023: The Dow Skills Development Centre (DSDC), in collaboration with ORIC, participated in the Health Asia Exhibition at Expo Center Karachi. The event showcased lab coats, scrubs, and medical attire, receiving significant orders from various businesses.

- Educational Initiatives:

- Decision Making 101 Course: In November 2024, ORIC and DSDC offered a 4-week certificate course titled "Decision Making 101," aimed at equipping participants with essential tools for high-stakes decisions in personal and professional life.

Forman Christian College (FCCU), Lahore

Office of Research, Innovation & Commercialization (ORIC)

1. Department Name

Office of Research, Innovation & Commercialization (ORIC)

Established in July 2011, ORIC at FCCU aims to promote meaningful research by faculty and students to foster innovation and commercialization. The office supports the development of research capabilities and facilitates the translation of research outcomes into practical applications. (fccollege.edu.pk)

2. In-Charge / Key Personnel

- Dr. Kauser Abdulla Malik

Director, ORIC

Dr. Malik oversees the strategic direction and operations of ORIC, ensuring the alignment of research initiatives with the university's objectives.

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 - Phone: +92 42 99231581-8, Ext: 504
 - Fax: +92 42 99207301
 - Office Location: S-349, Kauser Abdulla Malik School of Life Sciences
 - Profile: Dr. Malik is a distinguished academic with over 200 publications and eight patents. He has held significant positions, including Member of the Planning Commission of Pakistan and Chairman of the Pakistan Agricultural Research Council. (twas.org)
- Mr. Haroon Samson

Senior Manager, Research Development & Operations

Mr. Samson plays a pivotal role in managing research projects and operations within ORIC, facilitating the implementation of research programs.

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 - Office Location: Armacost Science Building, Office No. 26
 - Profile: Mr. Samson is actively involved in research operations and has represented FCCU in various academic and research forums. ([linkedin.com](https://www.linkedin.com))
-

3. Contact Information

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- Email:

contact@fccollege.edu.pk

4. Facilities and Infrastructure

- Armacost Science Building:

The primary location housing ORIC, equipped with modern facilities to support research activities.

- Departmental Research Labs & Programs:

FCCU hosts various departmental research labs and programs, fostering collaborative research across disciplines.

- Research Repository:

The university maintains a research repository to archive and disseminate research outputs, promoting knowledge sharing and accessibility.

5. Research and Commercialization Projects

- Research Poster Exhibition – January 2023:

ORIC, in collaboration with the Faculty of Humanities and Faculty of Social Sciences, organized a research poster exhibition titled “From Reflection to Reification.” The event showcased research projects across various disciplines, including sociology, psychology, and education. Notable projects included studies on parenting styles, online learning during the COVID-19 pandemic, and mental illness stigma among university students. (fccollege.edu.pk)

- COMSPEX-22 – Computer Science Senior Project Exhibition:

The Department of Computer Science, in collaboration with ORIC, hosted COMSPEX-22, an exhibition featuring innovative student projects in areas like artificial intelligence, machine learning, and blockchain. The event attracted external evaluators from institutions such as FAST-NUCES and UET, fostering industry-academic collaboration. (fccollege.edu.pk)

- Poverty Action Lab (PAL):

FCCU’s PAL, under the auspices of ORIC, focuses on research initiatives aimed at addressing poverty-related issues. The lab collaborates with various stakeholders to implement research findings in real-world contexts. (fccollege.edu.pk)

6. Industry Linkages and Revenue Generation

- Industry-Academic Collaborations:

ORIC facilitates partnerships between FCCU and industry stakeholders to promote the commercialization of research outcomes. These collaborations aim to bridge the

gap between academic research and industry needs.

- Entrepreneurship Initiatives:

Through various programs and events, ORIC encourages entrepreneurial activities among students and faculty, fostering the development of startups and innovative solutions.

- Research Grants and Funding:

FCCU actively seeks research grants and funding opportunities to support its research initiatives, ensuring the sustainability and growth of its research programs.

- Internal Research and Innovation Fund:

FCCU has allocated Rs. 5 million as a Research Fund to support research-related activities at FCCU under the auspices of ORIC. This fund supports research proposals, specialized training courses/workshops, and invited lectures by eminent scholars. Proposals can receive up to Rs. 300,000 each. (fccollege.edu.pk)

Foundation University Islamabad (FUI)

Office of Research, Innovation & Commercialization (ORIC)

1. Department Name

Office of Research, Innovation & Commercialization (ORIC)

Established in 2012 under HEC directives, the ORIC at FUI serves as the university's focal point for research development, innovation, commercialization, and strengthening academia-industry partnerships.

2. In-Charge / Key Personnel

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3. Contact Information

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 - Website: www.fui.edu.pk
-

4. Facilities and Infrastructure

- Advanced Research Labs in disciplines including Health Sciences, Engineering, and Information Technology.
 - Business Incubation Center (BIC): Actively supports student-led startups and commercial ventures.
 - Institutional Review Board (IRB): Ensures ethical compliance and oversight in research.
 - Research Journals:
 - Foundation University Journal of Psychology (FUJP) – HEC recognized
 - Foundation University Journal of Business & Economics (FUJBE)
 - Foundation University Journal of Dentistry (FUJD)
 - Foundation University Journal of Rehabilitation Sciences (FUJRS)
-

5. Research and Commercialization Projects

- Faculty Research Projects (2019–20):

- 25 funded projects, including:
 - 13 COVID-19 related projects – Rs. 3.25 million
 - 12 General research projects – Rs. 3.56 million
 - FYP Funding via NGIRI Program (2020):
 - 10 final-year student projects received Rs. 434,952 under the ICT R&D Fund.
 - Patent Filed:
 - “Wisdom Mining” by Prof. Dr. Muhammad Shaheen and Ms. Salma Khan
 - Academic Publishing:
 - Launch of new journals (FUJD, FUJRS) to promote faculty research dissemination
-

6. Industry Linkages & Activities

- Partnerships & MoUs:
 - Oklahoma Heart Hospital, USA
 - Exawal Technologies
 - Makkaan.com
 - Alfoze Technologies Pvt. Ltd.
- Supervised Industrial Training (SIT):
 - Collaboration with Rawalpindi Institute of Cardiology
- Entrepreneurship Promotion:
 - Participation in GUESSS 2021 (Global University Entrepreneurial Spirit Survey)
 - Workshops conducted on IP, startup incubation, and research ethics

7. Revenue & Funding Summary

Funding Source / Program	Description	Amount (PKR)	Year
Internal Research Grants	25 faculty research projects (13 COVID-related, 12 general)	Rs. 6.81 million	2019–2020
COVID-19 Specific Projects	13 pandemic-focused projects	Rs. 3.25 million	2019–2020
General Research Projects	12 academic discipline-based research projects	Rs. 3.56 million	2019–2020
NGIRI Program (ICT R&D Fund)	10 Final Year Projects (FYPs) supported under HEC initiative	Rs. 434,952	2020

University: Ghulam Ishaq Khan Institute of Engineering Sciences & Technology (GIKI),
Swabi

1. Department Name:

Office of Research, Innovation and Commercialization (ORIC)

2. In-Charge / Key Personnel:

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 - Prof. Dr. M. Hassan Sayyad – Principal Investigator, Dye-Sensitized Solar Cells Project
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-

4. Facilities:

- Catalyst Technology Incubation Center – offers physical space, mentorship, business development, seed funding access, and prototyping support
 - Advanced Research Labs – focused on renewable energy, material science, AI, IoT, and embedded systems
 - High-Performance Computing Access – for simulations, AI training, and data-intensive research
 - Testing & Fabrication Facilities – including PCB design, laser cutting, 3D printing, and mechanical prototyping
 - Pakistan Innovation & Testing Center (PITC) – in collaboration with KP government, for early-stage product testing
-

5. Research & Commercialization Projects (Current & Past):

- Dye-Sensitized Solar Cells (DSSCs)
 - Funding: USD 517,196
 - Source: Pakistan-US Science and Technology Cooperative Program (Phase-V)
 - Collaboration: South Dakota State University (USA)
 - Lead: Prof. Dr. M. Hassan Sayyad
 - Objective: Develop low-cost, high-efficiency solar solutions for off-grid applications in Pakistan
- Catalyst Incubation Program

- Support: PKR 100 million from Directorate of Science and Technology (DoST), KP
 - Focus Areas: CleanTech, HealthTech, FinTech, AI, Robotics, and EdTech
 - Impact: Dozens of startups supported with business mentoring, technical development, and access to investor networks
 - Machine Learning and IoT Projects
 - Partnered with national utilities and telecom companies
 - Areas include smart grid monitoring, energy optimization, and predictive maintenance systems
 - Collaborative Projects with Industry
 - Joint work with PITB, KP CPEC Cell, and HEC under National Research Program for Universities (NRPU)
-

6. Other Information (Industry Linkages, Revenue, etc.):

- Industry Linkages:
 - MoUs and partnerships with:
 - Khyber Pakhtunkhwa IT Board
 - Ministry of Science & Technology, Pakistan
 - South Dakota State University
 - Tri Ri Asset Management (USA)
 - Pakistan Innovation & Testing Center
 - Active collaborations with industries in electronics, energy, software, and industrial automation
 - Member of national and provincial startup/innovation ecosystems

- Revenue / Funding Highlights:
 - USD 517,196 – U.S.-Pakistan research grant for solar cell project
 - PKR 100 million – Catalyst incubation grant from DoST KP
 - USD 100 million – Venture capital fund commitment by Tri Ri Asset Management (USA)
 - Additional Grants: Received under HEC NRPU and other applied research initiatives
 - Startups incubated under Catalyst have collectively attracted seed funding in local and international competitions

1. Department Name

Office of Research, Innovation & Commercialization (ORIC)

This department oversees research development, innovation, and commercialization activities at IoBM.

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-

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-

4. Facilities

While specific details about ORIC's facilities at IoBM are not publicly listed, the university's main campus spans 11 acres and includes various academic and research facilities. Additionally, the Entrepreneurship & Management Excellence Center (EMEC) and the Shahjehan Syed Karim Business Incubation Centre (SSK-BIC) support research commercialization and innovation activities.

Research & Innovation Facilities

1.

Entrepreneurship and Management Excellence Center (EMEC)

- Purpose: EMEC serves as a hub for entrepreneurial training, research workshops, and innovation support.
- Activities: Hosts workshops on topics like qualitative research methodology and project management for entrepreneurship.

2.

Shahjehan Syed Karim Business Incubation Centre (SSK-BIC)

- Function: SSK-BIC supports startups and entrepreneurial ventures, providing a platform for transforming research into market-ready products.
- Initiatives: Launched programs like the "Dr. Ahmer S. Karim (ASK) 500K Grant Challenge" to support innovative projects.

3.

Computer Laboratories

- Facilities: The College of Computer Science and Information Systems houses multiple computer labs with approximately 300 workstations, facilitating hands-on experience in information technology.

4.

Library Resources

- Capacity: Accommodates 350 students and houses 48,851 books, along with access to a vast array of electronic resources.
- Digital Access: Provides access to online journals through platforms like JSTOR and the HEC Digital Library.

5.

Media Production Studio

- Equipment: Equipped with 4K broadcast equipment, sound rooms, grading rooms, and editing labs.
 - Usage: Supports media students in projects involving lighting, sound, camera work, and animation.
-
-

5. Research and Commercialization Projects

IoBM's ORIC has been actively involved in various initiatives:

- Workshops and Training: Conducted sessions on topics like qualitative data analysis with NVivo, grant proposal writing, and new product development.

- Collaborations: Signed an MoU with the University of Karachi to enhance research, innovation, commercialization, and incubation support.
-

6. Industry Linkages and Revenue

Specific data regarding IoBM's industry linkages and revenue generated through research commercialization is not publicly disclosed. However, the university's collaborations, such as the MoU with the University of Karachi, indicate active engagement in research and industry partnerships.

As of now, specific revenue figures for the Institute of Business Management (IoBM) Karachi's Office of Research, Innovation & Commercialization (ORIC) are not publicly disclosed. However, IoBM's ORIC actively engages in various initiatives that contribute to research commercialization and potential revenue generation:

Research Commercialization Initiatives

- Workshops and Training Programs: IoBM's ORIC conducts workshops on topics such as grant proposal writing, new product development, and qualitative data analysis using NVivo. These programs aim to enhance the research capabilities of faculty and students, potentially leading to commercially viable projects.
- Collaborations and MoUs: IoBM has signed Memorandums of Understanding (MoUs) with institutions like the University of Karachi to foster joint research projects, knowledge exchange, and incubation support. Such collaborations can lead to the development and commercialization of innovative products and services.
- Business Incubation Support: The Shahjehan Syed Karim Business Incubation Centre (SSK-BIC) at IoBM supports startups and entrepreneurial ventures, providing a platform for transforming research into market-ready products.

While these activities indicate a robust framework for research commercialization, detailed financial data, including revenue generated from these initiatives, is not available in the public domain.

Office of Research, Innovation & Commercialization (ORIC) at the Institute of Space Technology (IST), Islamabad

1. Department Name

Office of Research, Innovation & Commercialization (ORIC)

This department oversees research development, innovation, and commercialization activities at IST.

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-

4. Facilities

IST boasts a range of research centers and laboratories supporting its research and commercialization activities:

- Research Centers/Labs:
 - Astronomy Resource Center (ARC)
 - Space Systems Lab (SSL)
 - Artificial Intelligence & Computer Vision Lab (iVision)
 - Wireless & Signal Processing Lab (WiSP)
 - Geospatial Research & Education Lab (GREL)
 - Scanning Electron Microscopy Lab (SEM)
 - Cyber & Information Security Lab (CISL)
 - Bio-signal Processing & Computational Neuroscience Lab (BiCoNeS)
 - Center for Vibration Testing and Condition Monitoring

- Advanced Manufacturing Facility
 - Electro-Magnetic Compatibility (EMC) Solutions
 - Avionics System Design Lab
 - Business Incubation Center (BIC):
 - Provides physical and virtual office spaces, co-working spaces, mentoring, access to labs and equipment, commercialization and marketing support, and access to finance and investor connections.
-

5. Research and Commercialization Projects

- ICUBE-1: Launched in 2013, ICUBE-1 was Pakistan's first CubeSat satellite, developed by IST. It served as a testbed for various scientific experiments in imaging, microgravity, biology, nanotechnology, and space dynamics.
- ICUBE-Q: Launched in May 2024 aboard China's Chang'e 6 mission, ICUBE-Q is Pakistan's first lunar remote sensing nanosatellite. It was developed collaboratively by IST, SUPARCO, and Shanghai Jiao Tong University.
-

1.

ICUBE-Q (ICUBE-Qamar) – Pakistan's First Lunar Satellite

- Overview: Launched in May 2024 aboard China's Chang'e 6 mission, ICUBE-Q is Pakistan's inaugural lunar remote sensing nanosatellite.
- Collaborators: Developed jointly by IST, the Space & Upper Atmosphere Research Commission (SUPARCO), and Shanghai Jiao Tong University (SJTU) under the Asia-Pacific Space Cooperation Organization (APSCO) framework.

- Mission Details:
 - Type: Lunar Orbiter
 - Deployment: Released from the Chang'e 6 orbiter on May 8, 2024
 - Orbit: Selenocentric orbit with periapsis at 200 km and apoapsis at 8,600 km
 - Instruments: Equipped with two 1-megapixel cameras for lunar imaging
 - Significance: Marks Pakistan's first venture into deep space missions, enhancing its capabilities in space technology and fostering international collaborations.
-

2.

ICUBE-1 – Pakistan's First CubeSat

- Overview: Launched on November 21, 2013, ICUBE-1 was Pakistan's first CubeSat satellite, developed by IST's Space Systems Lab.
 - Specifications:
 - Mass: 1.1 kg
 - Dimensions: 10 cm cube
 - Capabilities: Equipped with sensors for scientific data collection in imaging, microgravity, biology, nanotechnology, and space dynamics.
 - Achievements: Demonstrated Pakistan's ability to design, develop, and operate a satellite, paving the way for future space missions.
-

3.

Research Centers and Laboratories

IST houses several specialized research centers and laboratories that contribute to its research and commercialization efforts:

- Space Systems Lab (SSL): Focuses on the design and development of space systems, including satellites like ICUBE-1 and ICUBE-Q.
- Artificial Intelligence & Computer Vision Lab (iVision): Conducts research in AI and computer vision applications.
- Wireless & Signal Processing Lab (WiSP): Specializes in wireless communication and signal processing research.
- Geospatial Research & Education Lab (GREL): Engages in geospatial analysis and remote sensing studies.
- Cyber & Information Security Lab (CISL): Dedicated to research in cybersecurity and information assurance.
- Bio-signal Processing & Computational Neuroscience Lab (BiCoNeS): Explores bio-signal processing and computational models of neural systems.
- Advanced Manufacturing Facility: Supports research in advanced manufacturing techniques and materials.
- Electro-Magnetic Compatibility (EMC) Solutions: Provides solutions for electromagnetic compatibility in electronic systems.
- Avionics System Design Lab: Focuses on the design and development of avionics systems for aerospace applications.

These facilities enable IST to conduct cutting-edge research and facilitate the commercialization of innovative technologies.

4.

Industry Linkages and Collaborations

IST's ORIC actively fosters collaborations with industry partners and research organizations to translate research into marketable solutions:

- Business Incubation Center (BIC): Provides support to startups and entrepreneurs, offering resources like office space, mentoring, and access to laboratories.
- Technology Innovation & Support Center (TISC): Assists researchers in intellectual property management, patent filing, and commercialization strategies.
- Collaborative Projects: Engages in joint research initiatives with national and international partners, including SUPARCO and SJTU.

These collaborations aim to bridge the gap between academia and industry, promoting the commercialization of research outcomes.

6. Industry Linkages and Revenue

While specific revenue figures are not publicly disclosed, IST's ORIC actively engages in:

- Collaborations: Partnerships with national and international organizations, including SUPARCO and Shanghai Jiao Tong University, for satellite development projects.
- Business Incubation: The BIC supports startups and entrepreneurial ventures, providing services that facilitate the commercialization of research and innovation.
- Technology Innovation & Support Center (TISC): Offers services related to intellectual property management, patent filing, and commercialization strategies.

Iqra University, Karachi

1.

Department Name

Office of Research, Innovation & Commercialization (ORIC)

Established in 2014 under the guidelines of the Higher Education Commission (HEC), ORIC at Iqra University aims to propel the institution into the forefront of high-impact innovation, applied research, and entrepreneurship.

[Link to ORIC at Iqra University](#)

2.

Key Personnel

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- Ms. Rabab Saeed
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- Mr. Muhammad Imran Ahmed
Attendant, ORIC

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3.

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-

4.

Facilities and Resources

- University Research Fund:

Allocated based on proposals with expected tangible outcomes, aiming to maximize research output. Grants can be awarded to projects viable for commercialization.
- External Grants and Projects:

Faculty and academic staff actively seek externally funded projects and grants, with ORIC facilitating applications and compliance with relevant regulations.
- Commercialization and Patents:

ORIC supports faculty in developing commercially viable products, negotiating with industry partners, and managing patenting and licensing processes.

- Business Incubation and Research/Innovation Park:

Promotes entrepreneurship among faculty, staff, and students through incubation programs and innovation parks.

5.

Current and Past Research & Commercialization Projects

- Design Patents:

Four innovative packaging designs from Iqra University have been granted design patents by the Intellectual Property Organization of Pakistan (IPO), with notable contributions from Dr. Baber Khan of the Media Sciences Department.

- Ignite Program:

ORIC has revamped the structure of the Ignite program, increasing the quota for Final-Year Projects (FYPs) from 10 to 40, allowing more students to secure grants and develop impactful solutions.

- Sindh Research & Technology Showcase 2024:

Out of 50 projects submitted, 23 were approved and featured prominently, including innovations like E-bikes, Talk AI technology, Futuristic Smart Mirrors, and Virtual Gaming experiences.

- Faculty Funding Achievements:

Notable projects include an International Consultancy Agreement with Auton8, an Environmental Sustainability Project by the Milkar Foundation, and multiple National Research Grants under the National Research Program for Universities.

6.

Industry Linkages and Revenue Generation

- Faculty Industry Placement Program:

ORIC has successfully connected academia and industry through placements with companies like Al-Rahim Textile Industries Limited, Matco Foods Limited, Therapy Works, Sui Southern Gas Company Limited, and Telemart. These collaborations have led to tailored solutions addressing specific industry needs.

- Customized Training Programs:

Recognizing industry demands, Iqra University has proposed the development of specialized programs to upskill professionals, ensuring long-term success and competitiveness.

- Revenue Generation:

While specific revenue figures are not publicly disclosed, ORIC's initiatives in securing grants, fostering industry collaborations, and supporting commercialization efforts contribute to the university's financial sustainability.

Revenue Generation from Intellectual Property

- Revenue Sharing Model:

Revenue from the commercialization of intellectual property is shared as follows:

- Inventor: 50%
- Inventor's Faculty/Department: 25%
- University's General Fund: 25%

- Note: ORIC reserves the right to revise this distribution at any stage.

- Patent Filing Fees:

The relevant campus from where the intellectual property is being filed bears the patent filing fee.

- Commercial Agreements:

All financial transactions related to commercialization are conducted through official university accounts, ensuring transparency and accountability.

Khyber Medical University (KMU), Peshawar

1.

Department Name

Office of Research, Innovation & Commercialization (ORIC)

Established to foster a research-oriented environment, ORIC at KMU aims to bridge the gap between academia and industry, promoting innovation and commercialization of research outputs.

2.

Key Personnel

- Dr. Zohaib Khan

Director, ORIC

Dr. Khan oversees the strategic direction of research initiatives, ensuring alignment with national and international standards.

- Dr. Zeeshan Kibria

Additional Director, ORIC

Dr. Kibria assists in managing research activities, focusing on enhancing research quality and output.

- Mr. Azmat Ali

Assistant Director, ORIC

- Mr. Numan Nazir

Assistant Director, ORIC

- Mr. Zafar Hayat

Assistant Director Finance, ORIC

- Mr. Waseem Riaz

Treasurer, KMU

- Mr. Waseem UI Haq

Manager, Business Incubation Centre (KUBIC)

- Dr. M. Naveed Iqbal

Manager, University-Industry Linkages

3.

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 - Website: <https://oric.kmu.edu.pk>
-

4.

Facilities and Resources

- Business Incubation Centre (KUBIC):

KUBIC provides aspiring entrepreneurs with the necessary guidance, support, and resources to transform their ideas into successful ventures that address challenges in the healthcare industry.

- Design Thinking Training:

KMU-BIC, in collaboration with ORIC, launched Pakistan's first design thinking training for MBBS students, aiming to introduce students to design thinking as an approach to problem-solving through effective innovation in healthcare.

- Research Ethics Workshops:

ORIC organized workshops on research ethics in collaboration with the Centre of Biomedical Ethics and Culture (CBEC), emphasizing the importance of ethical standards in medical research.

- Sub-Offices:

KMU has established sub-offices of ORIC in affiliated institutions like Bacha Khan Medical College (BKMC) to encourage research activities and provide access to resources such as digital libraries and software tools.

5.

Current and Past Research & Commercialization Projects

KMU's ORIC has been instrumental in various research projects, including:

- Oral Cancer Research Project:

A collaborative project with Sheffield University UK and HEC Islamabad, focusing on data collection and research on oral cancer patients, with a funding of Rs 100 million.

- NRPU-Funded Projects:

Multiple projects funded by the National Research Program for Universities (NRPU), covering areas like basic sciences, public health, and applied sciences, with funding ranging from Rs 2 million to over Rs 13 million.

- International Collaborations:

Projects in collaboration with international organizations such as WHO, University of Keele-UK, and DAAD Academic Exchange, focusing on public health, mental health, and e-health initiatives.

6.

Industry Linkages & Revenue Generation

- Strategic Objectives:

ORIC aims to establish linkages with the industry to facilitate coordinated research with mutual commercial and academic gains, develop and patent products, and provide consultancy and marketing services to various industries.

- Pakistan Innovative Road Show:

Organized by KUBIC in collaboration with Aspire Pakistan and Ejad Labs, this event aimed to promote innovation and entrepreneurship in the healthcare sector, showcasing successful startups and encouraging student participation.

- Revenue Generation:

While specific revenue figures are not publicly disclosed, KMU's active engagement in research commercialization, industry partnerships, and international collaborations indicates a robust approach to revenue generation through innovation and research.

KINNAIRD COLLEGE FOR WOMEN, LAHORE – ORIC PROFILE FOR CONFERENCE

1. Department Name

Office of Research, Innovation & Commercialization (ORIC)

Established under the Higher Education Commission (HEC) strategic framework, ORIC at Kinnaird College aims to foster a research-oriented environment, promote innovation, and facilitate the commercialization of research outputs.

Website: <https://oric.kinnaird.edu.pk>

2. Key Personnel

- Prof. Dr. Iram Anjum – Principal, Kinnaird College
- Prof. Dr. Ghazala Yaqub – Vice Principal
- Muhammad Aourangzeb – BIC Support Executive

3. Contact Information (Emails & Phone Numbers)

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- Business Incubation Center (BIC): bic@kinnaird.edu.pk
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- General Information: info@kinnaird.edu.pk
- Phone: +92 42 99203781-84
- Address: 93 Jail Road, G.O.R. – I, Lahore, Punjab, Pakistan

4. Facilities

- Kinnaird Business Incubation Center (KBIC):

Provides support for converting research into commercial ventures with a focus on women entrepreneurship.

- Research Support Services:

Guidance in proposal writing, grant acquisition, and project management.

- Innovation Programs:

Regularly hosts innovation competitions, startup idea sessions, and skills workshops.

5. Current and Past Research & Commercialization Projects

- 3rd International Conference on Science, Technology, and Innovation (2025):

Organized by ORIC and KBIC, attracting international researchers and institutions to present work in commercialization and innovation.

- Business Plan & Innovative Idea Competition (2025):

In collaboration with HEC, encouraging student-led innovation. Winning prototypes included:

- LENTCHOS (protein-packed lentil nachos)
- PEA CRUNCH (healthy baked snacks)
- HOME FITNESS LAB (home gym solution)
- CLUSTERS_ARTISAN CHOCOLATES (low-sugar chocolates)
- MACBEETS (beetroot-based macaroons)
- TURNIP LASAGNE (fortified lasagna sheets)
- CHAMOMILE CHOCOLATE (anti-stress chocolate)

6. Industry Linkages & Revenue

- Active industry collaborations through events, competitions, and research partnerships.
- International participation in innovation conferences and panels.
- Revenue figures are not publicly disclosed, but commercial products and startup activity indicate a functioning commercialization pipeline.

LAHORE UNIVERSITY OF MANAGEMENT SCIENCES (LUMS), LAHORE – OFFICE OF RESEARCH PROFILE

1. Department Name

Office of Research (OR)

The Office of Research at LUMS is dedicated to fostering a research-intensive environment, promoting innovation, and facilitating the commercialization of research outputs. (lums.edu.pk)

2. Key Personnel

- Dr. Muhammad Faisal – Director, Office of Research

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- Qasim Ali – Project Lead – Digital Transformation & Strategy

Oversees the Connect Portal project to streamline recruiter and student interaction. (pk.linkedin.com)

3. Contact Information

- General Inquiries: research@lums.edu.pk
- Phone: +92 42 3560 8000
- Address: LUMS, DHA, Lahore Cantt. 54792, Pakistan (or.lums.edu.pk)

4. Facilities

- Research Centers and Labs:

LUMS houses various research centers and laboratories equipped with state-of-the-art facilities to support interdisciplinary research. (lums.edu.pk)

- Digital Transformation Initiatives:

Projects like the Connect Portal aim to enhance collaboration between students and industry partners. (pk.linkedin.com)

5. Current and Past Research & Commercialization Projects

- Industry-Academia Linkages:

LUMS has established partnerships with various industries to facilitate the

commercialization of research, including projects focusing on design and development. (or.lums.edu.pk)

- Technology Transfer Initiatives:

Efforts are underway to devise innovative policies and frameworks to facilitate seamless technology transfer. (pk.linkedin.com)

6. Industry Linkages & Revenue Generation

- Global Academic Partnerships:

LUMS has established research collaborations with several renowned international universities, including Harvard University, Massachusetts Institute of Technology (MIT), McGill University, University of Chicago, University of Essex, University of Sussex, National University of Singapore, and the Management Development Institute. These partnerships facilitate joint research projects and academic exchanges. (en.wikipedia.org)

- Executive Education Collaborations:

Through the Rausing Executive Development Centre (REDC), LUMS has partnered with various organizations to deliver executive education programs. Notable collaborations include:

- American University, Washington DC: Certificate Programme for Women Entrepreneurs (2015–2016)
- INSEAD, France: Managing Your Global Enterprises (2004–2009)
- Darden School of Business, University of Virginia: Emerging Leaders Programme with AES Lalpir Pvt. Ltd. (2006–2009)
- The World Bank: Programs for journalists on economics and finance (2001 and 2005)

These collaborations have enhanced LUMS's capacity to deliver high-impact programs grounded in thought leadership and cutting-edge research. (redc.lums.edu.pk)

- National Incubation Centre Lahore (NICL):

LUMS hosts the National Incubation Centre Lahore, which supports startups and fosters innovation by providing resources, mentorship, and networking opportunities. (en.wikipedia.org)

- Technology for People Initiative (TPI):

TPI at LUMS focuses on leveraging technology and design to address governance challenges in the public sector. Projects have included evidence-based policing for Lahore Police and judicial reforms, demonstrating the university's commitment to applying research for societal impact. (en.wikipedia.org)

- Cybersecurity Collaboration with NCERT:

LUMS has signed a Memorandum of Understanding (MoU) with the National Cyber Emergency Response Team (NCERT) to enhance Pakistan's cybersecurity through collaborative research and innovative solutions. This partnership aims to address pressing national and global cybersecurity challenges. (pkcert.gov.pk)

- Career Fair Engagements:

The LUMS Career Fair 2025 connected over 200 national and international companies with students and alumni, facilitating on-site interviews and career guidance. Such events underscore the university's strong industry linkages and its role in preparing graduates for the job market. (apr.com.pk)

7. Revenue Generation

While specific revenue figures are not publicly disclosed, LUMS's active engagement in industry partnerships, research commercialization, and executive education programs indicates a robust approach to generating revenue and advancing innovation.

Mehran University of Engineering & Technology (MUET), Jamshoro – ORIC Profile

1.

Department Name

Office of Research, Innovation & Commercialization (ORIC)

MUET, Jamshoro, Sindh, Pakistan

Website: <https://oric.mueta.edu.pk>

2.

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[Profile](#)

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- Website: <https://oric.muuet.edu.pk>
- Google Maps: [MUET Jamshoro](#)

4.

Facilities

- Science & Technology Park (STP):

A state-of-the-art facility housing various incubated startups operating under the National Expansion Plan of NICs. The STP provides a conducive environment for innovation and entrepreneurship.

[More Info](#)

- Business Incubation Centre (BIC):

Focuses on nurturing innovative ideas and engineering projects that generate significant value. BIC supports technology areas such as Agri Tech, Auto Tech, FinTech, Energy Tech, Health Tech, and Smart Tech.

[More Info](#)

5.

Current and Past Research & Commercialization Projects

- Funded Research Projects:

MUET has undertaken various funded research projects in areas like water quality, nanotechnology, textile engineering, and environmental engineering. Notable projects include:

- Pesticides removal by point of use nanofiltration membrane
- Synthesis of printable and conductive nano carbon ink
- Development of Antimicrobial PP Mesh devices for Hernia repair
- Conserving Indus river water quality through pollution source tracking

- Development and Upscaling of Combined Adsorption Distillation Technique for Saline-Water Treatment

[More Info](#)

- Success Stories:

MUET has showcased products utilizing Thar Coal Flyash in competitions organized by EPTL, HUBCO, and Lucky Electric Power Company. These initiatives highlight the university's commitment to applied research and commercialization.

[More Info](#)

6.

Industry Linkages & Revenue Generation

- Industrial Collaborations:

MUET collaborates with various industries to enhance research and development. These partnerships provide companies access to smart researchers, the latest technologies, and university facilities, thereby fostering innovation and competitiveness.

[More Info](#)

- Intellectual Property Policy:

MUET has developed an intellectual property policy to guide the commercialization of research outputs. The university focuses on converting research into intellectual property and applying agile project management approaches in construction projects.

[More Info](#)

- Annual ORIC Self-Assessment Evaluation Report 2022-2023:

The report provides insights into the industrial linkages, patents filed and granted, liaison with industry, revenue generated, and strategic plans of ORIC.

[Download PDF](#)

Mirpur University of Science and Technology (MUST), Mirpur – ORIC Profile

1.

Department Name

Office of Research, Innovation & Commercialization (ORIC)

MUST, Mirpur, Azad Jammu & Kashmir, Pakistan

Website: <https://must.edu.pk/oric/>

2.

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[Profile](#)

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[Profile](#)

3.

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- Website: <https://must.edu.pk/oric/>
- Google Maps: [MUST Main Campus](#)

4.

Facilities

- Business Incubation Center (BIC): Supports startups and fosters entrepreneurship among students and faculty.
- Technology Development Fund (TDF) Projects: Facilitates the commercialization of innovative research through funding and collaboration.

5.

Current and Past Research & Commercialization Projects

- First Autonomous Vehicle of Pakistan (EMO): Developed by the Intelligent Transport Lab, this project focuses on creating an autonomous vehicle with emotional intelligence capabilities.

[Source](#)

- Hybrid Motorcycle: A project led by Dr. Khuram Pervez, aiming to develop an energy-efficient hybrid motorcycle combining petrol and battery power.

[Source](#)

- Eco-Friendly Concrete Incorporating Ceramic Waste: Developed self-compacting concrete using ceramic waste, contributing to sustainable construction practices.

[Source](#)

- Smart Wood Stove: A project funded by the Higher Education Commission (HEC) under the Technology Development Fund (TDF), focusing on developing an energy-efficient and environment-friendly smart wood stove for household use in hilly areas.

[Source](#)

- Electric Fan Design Innovation: A collaborative project with the Pakistan Electric Fan Manufacturers Association (PEFMA) to innovate electric fan designs, incorporating

IoT automation and solar panel-based DC fan designs.

[Source](#)

6.

Industry Linkages & Revenue Generation

- Technology Development Fund (TDF) Projects: MUST has secured multiple TDF projects from HEC, promoting industry-academia collaboration and commercialization of research.

[Source](#)

- PEC Seed Funding: Dr. Sohaib Manzoor, Manager Innovation & Commercialization at ORIC, secured Phase I Seed Funding from the Pakistan Engineering Council (PEC) for his startup, competing against 150 projects nationwide.

[Source](#)

- Workshops and Training: ORIC organizes workshops on research grants and commercialization, enhancing faculty and student engagement with industry and funding bodies.

[Source](#)

Muhammad Nawaz Shareef University of Agriculture (MNSUAM), Multan – ORIC Profile

1.

Department Name

Office of Research, Innovation & Commercialization (ORIC)

Muhammad Nawaz Shareef University of Agriculture, Multan (MNSUAM)

Website:

<https://www.mnsuam.edu.pk/index.php/research/office-of-research-innovation-and-commercialization-oric>

2.

Key Personnel

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3.

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- Address: Old Shujaabad Road, Multan, Punjab, Pakistan
- Website:
<https://www.mnsuam.edu.pk/index.php/research/office-of-research-innovation-and-commercialization-oric>

4.

Facilities

- Business Incubation & Agricultural Entrepreneurship Centre (BIAEC): Supports startups and fosters entrepreneurship among students and faculty.
- Intellectual Property Management: Assists in filing patents and ensures intellectual property rights for innovations.
- Research Proposal Support: Provides guidance on research proposals and post-award management.
- Training & Workshops: Organizes seminars and conferences on research and entrepreneurship.

5.

Current and Past Research & Commercialization Projects

- Accelerating Genetic Gain in Wheat through Hybrid Breeding: A project funded by the Australian Centre for International Agricultural Research (ACIAR), enhancing wheat production in collaboration with Bangladesh, Ethiopia, and Pakistan.
- Vegetable Nursery Production and Supply System for Kitchen Gardening: A project funded by AIP to promote kitchen gardening through efficient nursery production and supply systems.
- Improvement in Breeding and Seed Production System of Fodder Crops: A Punjab Government-funded project aiming to enhance fodder crop breeding and seed production systems.
- Screening of Genotypes with Improved Phosphorus Uptake Using Symbiotic Fungus in Cotton: A Higher Education Commission (HEC) funded project focusing on improving phosphorus uptake in cotton.
- Hybrid Wheat for Food Security: A project funded by the Department for International Development (DFID) to develop hybrid wheat varieties ensuring food security.
- Commissioned Research for Development of Cotton Seed: A Punjab Government-funded project focusing on developing cotton seed to enhance cotton production.
- Increasing Productivity and Profitability of Pulse Production in Cereal-Based Cropping Systems in Pakistan: A collaborative project with ACIAR to boost pulse

production in cereal-based cropping systems.

6.

Industry Linkages & Collaborations

- Memorandum of Cooperation with PFVA: MNSUAM signed a Memorandum of Cooperation with the All Pakistan Fruit & Vegetable Exporters, Importers, and Merchant Association (PFVA), aiming to enhance the horticulture sector through joint research, curriculum development, and student internships.
- Partnerships with Industry Leaders: MNSUAM has established partnerships with various industries to promote research commercialization and entrepreneurship, facilitating knowledge transfer and developing market-driven solutions.

7.

Revenue Generation & Funding Opportunities

- Business Incubation & Agricultural Entrepreneurship Centre (BIAEC): BIAEC supports startups and fosters entrepreneurship, contributing to revenue generation through innovative ventures.
- Research Grants & Funding Programs: MNSUAM participates in national and international funding programs like HEC and TDF to support research and commercialization activities.

8.

Recent Activities & Initiatives

- Workshops on Research Grants & Commercialization: ORIC organizes workshops to enhance faculty and student engagement with research grants and commercialization processes, providing guidance on proposal writing, funding opportunities, and industry collaboration.
- Curriculum Development for Industry Relevance: The university is revising its curriculum to incorporate industry perspectives, ensuring that graduates are equipped with the necessary skills and knowledge for the job market.

9.

Sustainability Initiatives

- Tree Plantation through Seed – A Community Interactive Approach: MNSUAM received a “Highly Commended” recognition at the Green Gown Awards for this project, which focused on utilizing seeds of wild and commercial tree plantations to improve green biomass. The project built the capacity of over 2,000 individuals, including local community members, students, and staff, through practical demonstrations and small nursery setups.

[Source](#)

National Textile University (NTU), Faisalabad – ORIC Profile

1.

Department Name

Office of Research, Innovation & Commercialization (ORIC)

Website: <https://ntu.edu.pk/oric/>

2.

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[Profile](#)

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- Muhammad Waqas

Manager Industrial Liaison

- Umair Yousaf

Manager Business Development

- Asif Saleem

Assistant to Director ORIC

3.

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- Website: <https://ntu.edu.pk/oric/>

4.

Facilities & Services

- National Textile Research Center (NTRC): The largest textile testing and quality facility in Pakistan, offering services in textile testing, prototype development, material evaluation, and pilot production.
- Business Incubation Center (BIC): Supports startups and fosters entrepreneurship among students and faculty.
- Intellectual Property Management: Assists in filing patents and ensures intellectual property rights for innovations.
- Research Proposal Support: Provides guidance on research proposals and post-award management.
- Training & Workshops: Organizes seminars and conferences on research and entrepreneurship.

5.

Current and Past Research & Commercialization Projects

- Technology Development Fund (TDF) Projects: NTU has secured funding for various projects under the HEC's TDF, focusing on the commercialization of research outcomes.
- IoT Project with Crescent Bahuman Limited (CBL): A collaboration to develop a mobile and desktop application for the Stenter Machine, aiming to enhance real-time

analytics and response systems.

- Artificial Intelligence (AI) Integration: Utilizing AI to identify technological demands in the textile industry, leading to the development of new research projects and collaborations with industry partners.
- Commercialization-Ready Technologies: NTU has developed several technologies ready for commercialization, including:
 - Vital signs monitoring vest
 - Helmets for civil & combat applications
 - Smart sensor for human health monitoring
 - Smart luggage bags
 - Sustainable nonwoven fabric filters
 - Composite furniture for indoor/outdoor use
 - Comfortable compression socks
 - Lightweight bulletproof vest

6.

Industry Linkages & Collaborations

- Memoranda of Understanding (MoUs): NTU has established over 18 MoUs with national and international institutions, facilitating research collaborations and commercialization opportunities.
- Industrial Consultancies: NTU has provided 14 consultancies to various industries, offering expertise in textile technology and innovation.
- DICE Textile Innovation Centre (DTIC): A joint initiative between NTU and the DICE Foundation, DTIC serves as a platform for textile-related innovations and collaboration among academia, industry, government, entrepreneurs, and expatriates.

7.

Revenue Generation & Funding

- **Approved Funding:** NTU has secured Rs. 89.6 million in approved funding for various research and commercialization projects.
- **Research Grants:** Facilitation of faculty applications for research grants from national and international funding bodies.
- **Intellectual Property Rights:** Support in filing and managing intellectual property applications, contributing to potential revenue streams.

National University of Modern Languages (NUML), Islamabad – ORIC Profile

1.

Department Name

Office of Research, Innovation & Commercialization (ORIC)

Website: [NUML ORIC](#)

2.

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3.

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- Email: oric@numl.edu.pk
- Timings: 08:00–14:00 & 15:30–18:30 (Monday–Friday)

4.

Facilities & Services

- Business Incubation Center (BICON): Established in October 2016 as a flagship project of the Higher Education Commission (HEC), BICON serves as an auxiliary unit of ORIC. It provides infrastructure, mentorship, networking, customized training programs, marketing assistance, and legal support to students, faculty, and alumni aiming to transform innovative ideas into startups.
- Industry Technology Cell (ITCON): Launched in August 2016, ITCON enhances academic and software development skills of students during their degrees. It assists in transforming research and commercial ideas into viable products, offering internships, stipends, and collaboration with software companies.

5.

Current and Past Research & Commercialization Projects

- Research Projects: NUML has undertaken various research projects funded by the Higher Education Commission (HEC), including:
 - “Building Up Policy Framework for Real Estate Market Regularization and Sustainability” – 4.4 million PKR
 - “Modeling and Simulation of Hybrid Nanofluid over Stretching Surfaces” – 1.672 million PKR
 - “Religious Minorities in Pakistan: Identity and Citizenship” – 2.39 million PKR
 - “Socioeconomic Impact of CPEC on Non-Traditional Maritime Security and Sustainable Development of Balochistan’s Blue Economy” – 17.36 million PKR
- Achievements: ORIC has devised policies, published reports and manuals, initiated MS/M.Phil. programs, applied for international university rankings, and established collaborations with various organizations. It has also developed an Intellectual Property Rights (IPR) policy to protect researchers’ interests.

6.

Industry Linkages & Collaborations

- Memoranda of Understanding (MoUs): NUML has signed MoUs with various firms and organizations to foster collaborations between academia and industry.
- Memberships: NUML is a member of the Association of Commonwealth Universities (ACU) and the United Nations Academic Impact (UNAI), enhancing its global academic collaborations.
- Events & Engagements: ORIC organizes seminars, conferences, and industry visits to promote entrepreneurial culture and community engagement.

Pakistan Institute of Engineering and Applied Sciences (PIEAS), Islamabad – ORIC Profile

1.

Department Name

Office of Research, Innovation & Commercialization (ORIC)

- Established: May 2015, as per Higher Education Commission (HEC) guidelines
- Website: <https://oric.pieas.edu.pk>
- Mission: To support and coordinate research and commercialization activities at PIEAS, aligning with HEC's Key Performance Indicators (KPIs) .

2.

Key Personnel

- Dr. Muhammad Tufail
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- Dr. Zafar Zarif

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- Dr. Khalid Waheed

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3.

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- Fax: +92-51-9248600

- Email: oric@pieas.edu.pk
- Operating Hours: Monday to Friday, 8:00 AM – 4:00 PM

4.

Facilities

PIEAS offers a range of advanced laboratories and computational facilities across various departments:

- Electrical Engineering: Power Electronics Lab, Robotics & Automation Lab, Smart Grid Lab, Cyber-Physical Systems Lab, Control Systems Lab
- Mechanical Engineering: Thermodynamics Lab, Fluid Mechanics Lab, Computational Mechanics Lab, Refrigeration & Air Conditioning Lab
- Metallurgy & Materials Engineering: Nano-Device Characterization Lab, MEMS Design Lab, Corrosion & Electrodeposition Lab, Material Testing Lab
- Chemical Engineering: Process Control Lab, Heat Transfer Lab, Chemical Reaction Engineering Lab
- Computational Resources: High-performance computing clusters, simulation and modeling tools, AI and data analytics platforms

5.

Research & Commercialization Projects

- Solato Smart Solutions Pvt. Ltd.: A startup incubated at PIEAS's BIC, specializing in customized solar energy solutions across various sectors.
- Collaborations:
 - OGDCL: Visited PIEAS in July 2024 to explore mutual collaboration opportunities.
 - WAPDA Engineering Academy: Conducted a technical study tour in July 2024.
- Competitions:

- Consumer Product Manufacturing Competition 2024: Organized by AIChE and ORIC PIEAS, showcasing innovative engineering projects.

6.

Industry Linkages & Revenue Generation

- University-Industry Linkages (UIL): Managed by Dr. Khalid Waheed, focusing on fostering collaborations between PIEAS and industry partners.
- Business Incubation Center (BIC): Supports startups and entrepreneurial ventures, contributing to revenue generation through commercialization of research outputs.
- Steering Committee: Established in March 2024 to oversee ORIC/BIC policies and promote an entrepreneurial culture within the university.

PMAS-AAUR – Office of Research, Innovation & Commercialization (ORIC)

1.

Department Name

Office of Research, Innovation & Commercialization (ORIC)

- Website: [ORIC Home](#)

2.

Key Personnel

- Dr. Khalid Saifullah Khan

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- Mr. Muhammad Ishaq

Additional Director (Business Incubation)

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- Dr. Rai Muhammad Amir

Additional Director (Industrial Linkages)

- Email: Not publicly listed

General Contact:

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- Fax: +92-51-9290692
- Address: Office of Research, Innovation & Commercialization, PMAS-AAUR, Murree Road, Shamsabad, Rawalpindi, Pakistan

(uaar.edu.pk)

3.

Facilities

PMAS-AAUR offers a range of facilities to support research and commercialization:

- Research Centers:
 - National Center for Industrial Biotechnology (ENCIB): Focuses on industrial biotechnology research and development.
 - Center for Precision Agriculture: Dedicated to advancing precision agriculture technologies.
 - Big Data Agricultural Repository (BDAR): A center for managing and analyzing agricultural big data.
- Laboratories: Equipped for advanced research in agriculture, biotechnology, and environmental sciences.
- Business Incubation Center: Supports startups and entrepreneurial ventures.

- Extension Services: Disseminate agricultural knowledge and technologies to farmers and rural communities.

4.

Research & Commercialization Projects

PMAS-AAUR has undertaken various research projects, such as:

- Development of In-Plant Transformation System for Wheat
 - Principal Investigator: Dr. Abdul Razzaq
 - Duration: 24 months
 - Funding: HEC
 - Status: Completed
- Evaluation of High-Yielding and Drought-Resistant Canola Cultivars in Pothwar
 - Principal Investigator: Prof. Dr. Fayyaz ul Hassan
 - Duration: 36 months
 - Funding: PSF
 - Status: Completed
- Comparative Economics of Fish Farming in Four Districts of Pothwar Region
 - Principal Investigator: Prof. Dr. Sarfraz Ahmed Mian
 - Duration: 12 months
 - Funding: HEC
 - Status: Completed
- Strengthening of Wildlife Food Habits Study Laboratory
 - Principal Investigator: Prof. Dr. Iftikhar Hussain

- Duration: 12 months
- Funding: HEC
- Status: Completed

Additionally, the university is working on two mega projects:

- DDSDP: Details not specified.
- ENCIB: Details not specified.

5.

Industry Linkages & Collaborations

PMAS-AAUR actively fosters academia-industry linkages:

- Policy Dialogues: Conducted to strengthen academia-industry collaborations for economic development.
- Memoranda of Understanding (MoUs): Signed with national and international institutions, including the University of Gambia and Kyungpook National University, Korea, to promote research collaborations and academic exchanges.
- Job Fairs and Open Houses: Organized to showcase student projects and facilitate interactions with industry representatives.
- Collaboration with Allied Bank: Research on the viability of hydroponic farming in Pakistan using alternative energy resources.

6.

Additional Information

- Research Endowment Fund: Provides incentives to faculty members for publishing research papers under the university's name.

- Annual ORIC Self-Assessment Evaluation: PMAS-AAUR received a score of 66.5 in the FY 2022-2023 evaluation by the Higher Education Commission (HEC).
- Silver Jubilee Celebrations: The university celebrated its 25th anniversary with events highlighting its achievements in quality education and strong academia-industry linkages.

As of now, Pir Mehr Ali Shah Arid Agriculture University (PMAS-AAUR) does not publicly disclose specific revenue figures generated through its research commercialization activities. While the university's Office of Research, Innovation & Commercialization (ORIC) oversees various initiatives—such as funded research projects, industry collaborations, and the Research Endowment Fund—detailed financial data pertaining to income from these activities is not available in the public domain.

For precise and up-to-date information regarding revenue generated from research commercialization, it is advisable to contact the university directly. You may reach out to:

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 - Email: khalidsaifullah@uaar.edu.pk
- General ORIC Contact
 - Email: oric@uaar.edu.pk
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Quaid-i-Azam University (QAU), Islamabad

Office of Research, Innovation & Commercialization (ORIC)

1.

Department Name

Office of Research, Innovation & Commercialization (ORIC)

This office manages all research-related activities and commercialization of the university's academic output, including collaboration with industries and entrepreneurs.

2.

Key Personnel

- Prof. Dr. Muhammad Ishtiaq Ali

Director of ORIC

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- Address: Quaid-i-Azam University, Islamabad, Pakistan

- Prof. Dr. Niaz Ahmad Akhtar

Vice Chancellor, Quaid-i-Azam University

- Email: vc@qau.edu.pk
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- Address: Quaid-i-Azam University, Islamabad, Pakistan

3.

Contact Information

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- Website: [QAU ORIC](#)
- Address: Quaid-i-Azam University, Islamabad, Pakistan

4.

Facilities

- Business Incubation Centre (BIC)

The BIC fosters entrepreneurial growth within the university by providing a platform for students, faculty, and alumni to develop startups and innovations. The center provides resources, guidance, and networking opportunities to help turn research ideas into marketable products.

- Support Services: Business planning, financial advisory, mentorship, access to investors, and office space.

- Research Laboratories & Equipment

The university provides state-of-the-art research facilities for various scientific disciplines, including life sciences, physical sciences, and engineering. This includes access to laboratories, scientific equipment, and computing facilities essential for conducting high-level research.

- Intellectual Property (IP) Management

ORIC facilitates the patenting process, helping researchers protect their intellectual property rights for inventions, software, and creative works.

5.

Research & Commercialization Projects

- Ongoing Projects

ORIC is involved in numerous research projects across multiple disciplines, from biology to engineering, addressing national and international issues. Specific

information on individual projects may require direct contact with the office.

- Past Research & Commercialization Projects
 - Agriculture and Biotechnology: Research on improving crop yields, pest resistance, and sustainable agriculture practices.
 - Environmental Sciences: Projects focused on pollution control and climate change mitigation.
 - Information Technology: Development of software tools, AI systems, and smart applications aimed at solving real-world problems.
 - Collaborations with Industry: The university has worked with major corporations in pharmaceuticals, IT, and agriculture for joint research, leading to commercialization of products developed from university research.

6.

Industry Linkages & Collaborations

- National Collaborations

ORIC has established strong relationships with government organizations, industries, and research institutes such as the Pakistan Science Foundation, NESCOM, and Pakistan Agricultural Research Council (PARC). These collaborations support research funding and the practical application of university research findings in industry.

- ORIC's incubation center has also facilitated various university startups by connecting them to national industries for partnership and commercialization.

- International Collaborations

ORIC has signed MoUs with several leading international institutions, including:

- University of Sheffield (UK): Joint research in biotechnology and environmental sciences.
- University of Darussalam Gontor (Indonesia): Collaborative research in social sciences and educational development.

- South Kazakhstan Pedagogical University: Partnerships in education and collaborative research on regional development projects.

7.

Other Information (Revenue, Industry Linkages, etc.)

- Funding and Revenue Generation

- HEC Grants: ORIC regularly applies for and receives funding from the Higher Education Commission (HEC) of Pakistan, supporting both individual research projects and collaborative efforts with industries.
- Industry Partnerships: The university's commercialization activities generate revenue from the sale of intellectual property, licensing agreements, and partnerships with industry players.

- Startups and Entrepreneurship

Several university projects have been successfully commercialized, with startup ventures emerging from ORIC's Business Incubation Centre. These startups have attracted private investment and further research grants, contributing to QAU's revenue streams.

Research Funding and Grants:

- A significant portion of the university's revenue comes from national and international grants, such as those provided by the Higher Education Commission (HEC), Pakistan Science Foundation (PSF), UNESCO, and other government and private entities.
- Research partnerships with national and international research institutes also bring in revenue to support various scientific and technological initiatives.

- Commercialization of Intellectual Property (IP):

- Patents and Licensing: QAU has a robust mechanism for patenting and licensing the innovations coming out of its research departments. These IP rights are commercialized, either by licensing technologies to external companies or creating spin-off companies that directly generate revenue.
- Technology Transfer: The university works on facilitating the transfer of technologies developed at QAU to the market. Revenue is generated through

technology licensing and selling patents developed from academic research.

- Business Incubation Center (BIC):
 - The Business Incubation Centre (BIC) at QAU provides space, mentorship, and resources for university startups. These startups, once successful, either continue to grow independently or are acquired by larger companies, leading to financial returns for the university.
 - The BIC also attracts investment from venture capital firms and industry partners, which provides additional revenue to the university.
- Industry Linkages and Collaborative Projects:
 - Collaborations with Private Industry: Through its partnerships with both national and international companies, QAU has earned revenue from collaborative research efforts. For example, the university collaborates with industries like pharmaceuticals, agriculture, and information technology, which not only fund research but also take these innovations into production and market them.
 - Contract Research: Revenue is also generated by conducting research on behalf of external industry clients, where companies pay for research outcomes that benefit their specific needs.

While the exact revenue figures are not publicly available, the university's involvement in these commercial activities contributes significantly to its financial sustainability. The incubation center and technology transfer mechanisms are particularly key in bringing in revenue from research outcomes and business ventures.

Shaheed Zulfiqar Ali Bhutto Institute of Science and Technology (SZABIST), Karachi

Office of Research, Innovation & Commercialization (ORIC)

1.

Department Name

Office of Research, Innovation & Commercialization (ORIC)

- Website: <https://oric.szabist.edu.pk>

2.

Key Personnel

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- Ms. Amber Nasreen Anjum

Manager, Research Operations & Commercialization

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3.

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- Website: <https://oric.szabist.edu.pk>

4.

Facilities

- Business Incubation Centre (BIC)
 - Address: F-153, Clifton Block 5, Karachi, Pakistan
 - Phone: +92 (21) 35821539-41 (Ext. #407)
 - Description: The BIC serves as a dynamic nucleus for innovation and collaboration, nurturing entrepreneurship among students and alumni. It provides resources, mentorship, and networking opportunities to transform technology-based business ideas into reality.

5.

Research & Commercialization Projects

- Ongoing Projects:

ORIC oversees various research projects across disciplines such as technology, business, and social sciences. Specific details on individual projects can be obtained by contacting the ORIC office directly.
- Past Projects:
 - Startup Launches: The BIC has successfully launched several startups, including “Acebot,” which focuses on AI-driven solutions.
 - Final Year Project Showcases: ORIC organizes events like the “Showcase of Final Year Projects,” highlighting student innovations and fostering

industry-academia collaboration.

6.

Industry Linkages & Revenue Generation

- Industry Collaborations:

ORIC facilitates partnerships with local and international industries, enabling students and faculty to engage in collaborative research and commercialization efforts.

- Revenue Streams:

While specific revenue figures are not publicly disclosed, SZABIST generates income through:

- Licensing of Intellectual Property (IP): Commercializing research outputs through patents and licenses.
- Consultancy Services: Offering expertise to industries in areas such as technology development and business strategy.
- Startup Ventures: Generating revenue from successful startups incubated within the BIC.

- Business Incubation Center (BIC):

The BIC serves as a key driver of commercialization at SZABIST, helping startups grow and secure funding. Startups, once successful, generate revenue through product development, venture capital funding, and industry partnerships.

Additional Information

- SZABIST's commercialization efforts are supported through national and international research grants, patenting, and licensing technologies developed by faculty and students.
- The university maintains an ongoing focus on collaborations with industry partners in sectors such as technology, pharmaceuticals, and business to apply research and

drive commercialization.

Sindh Agriculture University (SAU), Tandojam

Office of Research, Innovation & Commercialization (ORIC)

1.

Department Name

Office of Research, Innovation & Commercialization (ORIC)

- Website: <https://oric.sau.edu.pk>

2.

Key Personnel

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- Dr. Tanweer Fatah Abro

Manager, Research Management

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3.

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4.

Facilities

- Business Incubation Centre (BIC)
 - Description: Established through an MoU with the Higher Education Commission, the BIC aims to foster a knowledge-intensive entrepreneurial culture in Sindh. It focuses on sectors such as agricultural science and technology, agro-enterprise development, agricultural engineering, agri-business, livestock management, and agro-information technology. The center organizes business plan competitions and engages students across faculties.
- Advanced Laboratories
 - Description: SAU boasts advanced laboratories equipped with instruments like GC-MS, HPLC, AAS, ELISA, and Texture Analyzers. These facilities support research in microbiology, new food product development, cereal/bakery technology, and food preservation techniques.

5.

Research & Commercialization Projects

- Ongoing Projects:
 - Development of Bio-products: Creating sustainable eco-friendly solutions for managing wilt diseases in vegetables.

- Evaluation of Agricultural Wastes: Assessing the impact of fruit and milk tea waste and biochar amendments on maize growth under salt stress conditions.
- Oil Palm Plantation: Promoting improved production technology of oil palm in coastal areas of Sindh.
- Past Projects:
 - Recycling of Banana Residues: Compost preparation for carbon sequestration and improved crop production.
 - Surveillance of Abortifacient Pathogens: Monitoring zoonotic pathogens in small ruminants.
 - Cryopreservation Protocol Optimization: Enhancing protocols for indigenous cattle semen.
 - Seedling and Root Diseases of Chilli: Investigating control measures for diseases affecting chilli crops.
 - Conservation of Pateri Goat: Screening genetic diversity and empowering farmers through goat rearing.
 - Climate Change Implications: Studying water management and adaptation strategies.

6.

Industry Linkages & Revenue Generation

- Industry Collaborations:

SAU maintains strong linkages with various food industries, including National Foods Karachi, Wazir Ali Oil Industries, Dawn Bread Hyderabad, Laseefa Foods Hyderabad, Pakistan Beverages Hyderabad, Popular Food Industry Tando Adam, Candyland, and Cadbury Hub. These partnerships facilitate training, research, and skill enhancement for students and industry personnel.

- Revenue Streams:

While specific revenue figures are not publicly disclosed, SAU generates income through:

- Licensing of Intellectual Property (IP): Commercializing research outputs through patents and licenses.
- Consultancy Services: Offering expertise to industries in areas such as technology development and business strategy.
- Startup Ventures: Generating revenue from successful startups incubated within the BIC.
- Research Grants: Securing funding from national and international organizations for various research projects.

The Islamia University of Bahawalpur (IUB)

Office of Research, Innovation & Commercialization (ORIC)

1.

Department Name

Office of Research, Innovation & Commercialization (ORIC)

- Website: <https://oric.iub.edu.pk>

2.

Key Personnel

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3.

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4.

Facilities

- Business Incubation Center (BIC)
 - Description: The BIC at IUB fosters entrepreneurship by providing support to startups and facilitating the commercialization of research outputs. It serves as a bridge between academia and industry, promoting innovation and economic development.
- Research Laboratories and Centers
 - Description: IUB houses various research laboratories and centers equipped with modern facilities to support interdisciplinary research across fields such as agriculture, engineering, health sciences, and social sciences.
- Ethical Institutional Review Board (IRB)

- Description: ORIC has established an IRB to undertake meticulous reviews of research proposals, ensuring adherence to ethical guidelines, especially for research involving human subjects.
- Institutional Committees
 - Description: ORIC oversees several committees, including the Institutional Bio-safety Committee (IBSC), Institutional Animal Ethics Committee (IAEC), and Institutional Human Ethics Committee (IHEC), to ensure compliance with research standards and ethics.

5.

Research & Commercialization Projects

- Ongoing Projects:
 - NRPU 2024-2025: IUB is actively participating in the National Research Program for Universities (NRPU), encouraging faculty to submit proposals for funding under the 2024-2025 cycle.
 - PARB-Funded Projects: ORIC facilitated a visit by the Punjab Agriculture Research Board (PARB) to evaluate ongoing research projects, including those in the Department of Soil Science and the National Research Center of Intercropping.
- Past Projects:
 - WWF-Pakistan Consultancy: A team of IUB faculty secured a consultancy project with WWF-Pakistan titled “Capacity Building of Field Staff on Alternative Methods Beyond Synthetic Fertilizers and 4R Nutrient Management.” The initiative aimed to enhance sustainable agricultural practices and was led by Prof. Dr. Maqshoof Ahmad, along with team members Dr. Azhar Hussain, Dr. Hafiz Tanvir Ahmad, and Dr. Abubakar Dar from the Department of Soil Science.

6.

Industry Linkages & Revenue Generation

- Industry Collaborations:

ORIC at IUB actively fosters collaborations with industry partners to bridge the gap between academic research and practical applications. These partnerships aim to promote innovation, entrepreneurship, and the commercialization of research outputs.

- Revenue Streams:

While specific revenue figures are not publicly disclosed, ORIC generates income through:

- Consultancy Services: Providing expert services to industry partners, as exemplified by the WWF-Pakistan project.
- Research Grants: Securing funding from national and international bodies for various research initiatives.
- Commercialization of Technologies: Licensing and marketing of university-developed technologies and intellectual property.

The Superior University, Lahore

Office of Research, Innovation & Commercialization (ORIC)

1.

Department Name

- Office of Research, Innovation & Commercialization (ORIC)
- Website: <https://oric.superior.edu.pk>

2.

Key Personnel

Name	Designation	Email Address
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Ms. Shamaila Parveen	Assistant Manager Innovation & Commercialization	oric@superior.edu.pk

Ms. Faiza Ali	Assistant Manager Research	oric@superior.edu.pk
Ms. Javeria Atta	Assistant Manager Research Communication	oric@superior.edu.pk
Mr. Usman Abbas	Research Associate	oric@superior.edu.pk

Note: All personnel can be reached via the central ORIC email address.

3.

Contact Information

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- UAN: 042-111-000-078
- Address: 17 KM, Main Raiwind Road, Lahore, Punjab, Pakistan

4.

Facilities

- Business Incubation Center (BIC): Supports startups and facilitates the commercialization of research outputs.
- Research Laboratories and Centers: Equipped with modern facilities to support interdisciplinary research across various fields.
- Ethical Institutional Review Board (IRB): Reviews research proposals to ensure adherence to ethical guidelines.
- Institutional Committees: Includes the Institutional Bio-safety Committee (IBSC), Institutional Animal Ethics Committee (IAEC), and Institutional Human Ethics Committee (IHEC) to ensure compliance with research standards and ethics.

5.

Research & Commercialization Projects

- Ongoing Projects:
 - Superior Impact Fund (SIF): An internal research grant program funding high-quality and promising scientific research that demonstrates strategic relevance and impact on local industry and society.
 - Research Colloquium Series 2025: A series of sessions aimed at promoting research excellence aligned with the United Nations Sustainable Development Goals, especially Goal No. 4 – Quality Education.
- Past Projects:
 - WWF-Pakistan Consultancy: A consultancy project titled “Capacity Building of Field Staff on Alternative Methods Beyond Synthetic Fertilizers and 4R Nutrient Management,” aiming to enhance sustainable agricultural practices.

6.

Industry Linkages & Revenue Generation

- Industry Collaborations: ORIC actively fosters collaborations with industry partners to bridge the gap between academic research and practical applications, promoting innovation, entrepreneurship, and the commercialization of research outputs.
- Revenue Streams: While specific revenue figures are not publicly disclosed, ORIC generates income through consultancy services, research grants, and the commercialization of university-developed technologies and intellectual property.

The University of Faisalabad (TUF)

Office of Research, Innovation & Commercialization (ORIC)

1.

Department Name

- Office of Research, Innovation & Commercialization (ORIC)
- Website: <https://oric.tuf.edu.pk>

2.

Key Personnel

Name	Designation	Email Address
Prof. Dr. Aman Ullah Malik	Director ORIC	director.oric@tuf.edu.pk
Dr. Shaista Shafiq	Manager Innovation and Commercialization	manager.innovation@tuf.edu.pk
Dr. Aqib Majeed	Manager Research Management	manager.research@tuf.edu.pk
Dr. Muhammad Arshad Shehzad Hassan	Manager University Industrial Linkages & Technology Transfer	manager.industrial@tuf.edu.pk
Dr. Amna Javed	Manager International Linkages	manager.international@tuf.edu.pk

Mr. Muhammad Zubair	Manager I.P / Legal Services	manager.ip@tuf.edu.pk
Mr. Noman Aslam	Publication/Communication Specialist	publication@tuf.edu.pk
Dr. Rimsha Riaz	Assistant Manager Research Management	assistant.research@tuf.edu.pk
Mr. Muhammad Ahmed Saleem	Assistant Manager Innovation and Commercialization	assistant.innovation@tuf.edu.pk

3.

Contact Information

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- UAN: +92-41-111-111-883
- Fax: +92-41-8750970
- Addresses:
 - Sargodha Road, University Town, Faisalabad
 - Canal Road, Faisal Town, Faisalabad
 - Alam Tower, Bhobitan Chowk, Raiwind Road, Lahore

4.

Facilities

- Research Laboratories and Centers: TUF houses various research laboratories and centers equipped with modern facilities to support interdisciplinary research across fields such as engineering, health sciences, and social sciences.
- Ethical Institutional Review Board (IRB): ORIC has established an IRB to undertake meticulous reviews of research proposals, ensuring adherence to ethical guidelines, especially for research involving human subjects.
- Institutional Committees: ORIC oversees several committees, including the Institutional Bio-safety Committee (IBSC), Institutional Animal Ethics Committee (IAEC), and Institutional Human Ethics Committee (IHEC), to ensure compliance with research standards and ethics.

5.

Research & Commercialization Projects

- Ongoing Projects:
 - Research Publications: TUF's ORIC encourages faculty and students to publish their research in reputable journals, contributing to the university's academic standing.
 - Innovation Initiatives: The office supports innovative projects that have the potential for commercialization, fostering an environment of creativity and practical application.
- Past Projects:
 - Collaborative Research: TUF has engaged in collaborative research projects with various industries and academic institutions, aiming to address real-world challenges through applied research.

6.

Industry Linkages & Revenue Generation

- Industry Collaborations: ORIC at TUF actively fosters collaborations with industry partners to bridge the gap between academic research and practical applications. These partnerships aim to promote innovation, entrepreneurship, and the

commercialization of research outputs.

- Revenue Streams: While specific revenue figures are not publicly disclosed, ORIC generates income through consultancy services, research grants, and the commercialization of university-developed technologies and intellectual property.

University of Central Punjab, Lahore - Research Commercialization Profile

1. Department Name:

Office of Research, Innovation & Commercialization (ORIC)

2. In Charge/Key Personnel Names:

- Dr. Raza Ali, Director ORIC
- Dr. Syed Fahad Ali, Manager ORIC
- Dr. Hina Khalid, Senior Research Associate

3. Emails and Telephone Numbers:

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- Dr. Syed Fahad Ali - Email: syed.fahad@ucp.edu.pk | Phone: +92-42-111-823-423
- Dr. Hina Khalid - Email: hina.khalid@ucp.edu.pk | Phone: +92-42-111-823-423

4. Information on their Facilities:

- Innovation & Commercialization Labs: Dedicated labs for research, development, and commercial projects.
- Research Facilities: The university hosts several research centers in areas like engineering, business, and life sciences, providing cutting-edge resources for students and faculty.
- Technology Transfer Office: Assists in commercializing research outputs, focusing on patents, prototypes, and technology licensing.

5. Information on their Current and Past Research and Commercialization Projects:

- Research Focus Areas: Biotechnology, Artificial Intelligence, Sustainable Development, and Business Analytics.

- Recent Research Collaborations: UCP has partnered with various local industries and academic institutions to support and develop innovative solutions. The university regularly participates in national and international conferences to present findings and gain industry feedback.

6. Other Information including Industry Linkages, Revenue Generation, etc.:

- Industry Linkages:
 - MoU with Dilawar Hussain Foundation: An agreement focused on health, education, and poverty alleviation initiatives.
 - Workshop on Research Proposals and Grants: UCP's two-day workshop aimed at enhancing research capacity among faculty members.
 - 19th ORIC Steering Committee Meeting: Regular meetings to review and strategize for advancing research commercialization and academic-industry linkages.
- Revenue Generation and Future Prospects: UCP has focused on developing commercialization pathways for its research outcomes, actively engaging with industries in sectors like pharmaceuticals, technology, and agriculture. Additionally, UCP encourages entrepreneurial ventures through its startups and innovation initiatives, which contribute to its revenue streams.

University of Engineering and Technology (UET), Lahore

Office of Research, Innovation & Commercialization (ORIC)

1.

Department Name

- Office of Research, Innovation & Commercialization (ORIC)
- Website: <https://www.uet.edu.pk/>

2.

Key Personnel

- Dr. Muhammad Asif – Director, ORIC
 - Profile: Dr. Asif leads ORIC at UET Lahore, focusing on fostering a culture of research, innovation, and commercialization through collaboration between the university, industry, and civil society.
- Dr. Aqsa Shabbir – Director, ORIC
 - Profile: Dr. Shabbir is involved in establishing collaborations and partnerships to promote research and commercialization activities at UET Lahore.

3.

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- Address: University of Engineering and Technology, Lahore, Pakistan

4.

Facilities

- Research Centers: UET Lahore hosts 19 featured research centers across various disciplines, providing state-of-the-art facilities for research and development activities.
- Technology Transfer Office (TTO): The TTO at UET Lahore focuses on promoting existing university innovations in local industry while maintaining a clear path from scientific results to commercial exploitation.

5.

Research & Commercialization Projects

- Collaborations with Industry: UET Lahore has established collaborations with various industries to promote research and commercialization activities.
- Research Publications: The university encourages faculty and students to publish their research findings in national and international journals, contributing to the advancement of knowledge and technology.

6.

Industry Linkages & Revenue Generation

- University-Industry Collaboration: UET Lahore actively fosters collaborations with industry partners to bridge the gap between academic research and practical applications. These partnerships aim to promote innovation, entrepreneurship, and the commercialization of research outputs.
- Intellectual Property Licensing: The licensing of intellectual property rights (IPRs) is a key strategy for generating revenue through the commercialization of university

innovations.

- Research Grants and Funding: ORIC coordinates with UET faculty to secure funding by submitting research proposals to national and international funding agencies, thereby supporting the commercialization of research outputs.
- Startups and Entrepreneurship: UET Lahore encourages entrepreneurial ventures through its startups and innovation initiatives, which contribute to its revenue streams.

University of Management and Technology (UMT), Lahore

Office of Research, Innovation & Commercialization (ORIC)

1.

Department Name

- Office of Research, Innovation & Commercialization (ORIC)
- Website: <https://www.umt.edu.pk/oric/home.aspx>

2.

Key Personnel

- Prof. Abid Hussain Khan Shirwani – Co-Founder, Chief Advisor on Innovation, and Director ORIC/TISC
 - Profile: Prof. Shirwani is a visionary leader in fostering innovation and commercialization at UMT.
- Naveed UI Haq – Manager Research Management
 - Profile: Mr. Haq oversees research management activities within ORIC.
- Hood Laeeq – Senior Research Associate
 - Profile: Mr. Laeeq coordinates with faculty and industry representatives regarding applied research projects.
- Shahzad Gul – Officer
 - Profile: Mr. Gul is involved in administrative and research support within ORIC.
- Muhammad Hamza Ramzan – Research Officer
 - Profile: Mr. Ramzan assists in research activities and project coordination within ORIC.

3.

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4.

Facilities

- Research Centers and Professional Centers: UMT hosts various research and professional centers that provide state-of-the-art facilities for research and development activities.
- Technology and Innovation Support Center (TISC): ORIC at UMT includes a TISC, which offers services related to intellectual property rights and supports innovation activities.
- Case Study Centre: This center focuses on developing case studies for academic and research purposes, fostering practical learning and research applications.

5.

Research & Commercialization Projects

- International Funded Projects: ORIC manages and facilitates research projects funded by international agencies, promoting global research collaborations.

- National Funded Projects: The office oversees projects funded by national bodies, aligning research activities with national priorities.
- UMT Internally Funded Projects: ORIC supports internally funded research initiatives, encouraging faculty and students to engage in innovative research.
- Invention to Innovation Summit 2023: ORIC organized the 2nd Invention to Innovation Summit in 2023, showcasing research and innovation projects.

6.

Industry Linkages & Revenue Generation

- Industry-Academia Linkages: ORIC actively promotes collaborations between UMT and industry partners to bridge the gap between academic research and practical applications.
- Intellectual Property Management: The office provides services related to intellectual property rights, including patent filing and licensing, contributing to revenue generation through commercialization.
- Corporate Advisory Council: ORIC has established a Corporate Advisory Council to strengthen ties with industry and align research activities with market needs.
- Research Grants and Funding: ORIC coordinates with faculty to secure research funding from various agencies, supporting the commercialization of research outputs.

University of Sargodha (UOS) – Office of Research, Innovation & Commercialization (ORIC)

1.

Department Name

- Office of Research, Innovation & Commercialization (ORIC)
- Website: <https://su.edu.pk/office/oric>

2.

Key Personnel

- Prof. Dr. Ahmad Raza Bilal – Director, ORIC-UOS
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 - Phone: (+92) 489 230 783
 - Source: [WIPO TISC Directory](#)
- Ms. Nargis Abbas – Deputy Director, ORIC
 - Email: nargis.abbas@uos.edu.pk
 - Source: [WIPO TISC Directory](#)

3.

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Source: [ORIC UOS Facebook Page](#)

4.

Facilities

- Research Laboratories: Equipped with advanced instruments such as:
 - Bruker SMART APPEX-II: For data collection and structure solution.
 - Shimadzu UV-VIS Spectrophotometer (Pharmaspec-1700): For ultraviolet-visible spectroscopy.
 - Shimadzu Fourier Transform Infrared Spectrophotometer (IR Prestige-21): For infrared spectroscopy.
 - Shimadzu Atomic Absorption Spectrophotometer (AA-6300): Both flame and graphite furnace models for elemental analysis.

Source: [ORIC Research Facilities](#)

- Waheed Wain Incubation Center (WWIC): A dedicated space for nurturing startups and fostering entrepreneurship among students and faculty.

Source: [WWIC ORIC](#)

- Technology and Innovation Support Center (TISC): Provides services related to intellectual property rights and supports innovation activities.

Source: [WIPO TISC Directory](#)

5.

Research & Commercialization Projects

- Completed Research Projects: A diverse range of projects funded by HEC, UNDP, USAID, and the Government of Punjab, including:
 - Agriculture: Studies on saline water usage for fodder crops, management of potato blight, and post-harvest management of mandarins.
 - Economics & Social Sciences: Research on poverty profiles, social audits of governance, and the economic impact of rural credit.
 - Science & Technology: Establishment of a plasma processing physics laboratory and biodiversity studies in citrus orchards.

Source: [ORIC Research Projects](#)

- Recent Initiatives:
 - Research Arena 2024: A week-long event showcasing research activities and fostering collaboration among researchers.

Source: [ORIC UOS Facebook Video](#)

- Policy Brief Submissions: Faculty members have been actively contributing policy briefs to governmental bodies, influencing policy-making.

Source: [ORIC UOS Facebook Post](#)

6.

Industry Linkages & Revenue Generation

- Memorandums of Understanding (MoUs): ORIC has established MoUs with various industries to promote collaborative research and commercialization efforts.

Source: [ORIC Apply Through ORIC](#)

- Consultancy Agreements: Faculty members have entered into consultancy agreements with companies, such as Trigon Pharmaceuticals, to provide expert services.

Source: [ORIC UOS LinkedIn Post](#)

- Entrepreneurial Success Stories: Startups incubated at WWIC, like DE Flora, have successfully managed numerous events and expanded their services across cities.

Source: [ORIC UOS LinkedIn Post](#)

- Revenue Generation: While specific revenue figures are not publicly disclosed, ORIC's activities in consultancy, intellectual property licensing, and industry collaborations contribute to the university's revenue streams.

University of Veterinary & Animal Sciences (UVAS), Lahore

Office of Research, Innovation & Commercialization (ORIC)

1.

Department Name

- Office of Research, Innovation & Commercialization (ORIC)
- Website: <https://www.uvas.edu.pk/about/ORIC/>

2.

Key Personnel

- Dr. Farhan Jamil – Director ORIC
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- Mr. Muhammad Faiz Rasool – Assistant Director Research
- Dr. Muhammad Adnan Aslam – Manager Intellectual Property Rights
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Source: [UVAS ORIC Staff](#)

3.

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Source: [UVAS ORIC Contact](#)

4.

Facilities

- Technology and Innovation Support Center (TISC): Provides services related to intellectual property rights and supports innovation activities.
- Business Incubation Center (BIC): Supports startups and fosters entrepreneurship among students and faculty.
- Research Laboratories: Equipped with advanced instruments and facilities for research in veterinary and animal sciences.
- Quality Operations Laboratory: Offers quality testing services for various products.
- University Diagnostic Laboratory: Provides diagnostic services for animal diseases.
- M2 LAB: A modern laboratory facility supporting research activities.

Sources: [UVAS ORIC Functions](#), [UVAS Facilities](#)

5.

Research & Commercialization Projects

- Ongoing Research Projects: UVAS is engaged in numerous research projects across various disciplines, including veterinary sciences, animal production, and biotechnology.
- Funding Sources: Research projects are funded by national and international agencies, including the Punjab Agriculture Research Board (PARB), Higher

Education Commission (HEC), and others.

- Recent Achievements:
 - UVAS faculty secured five competitive research funding projects from PARB, totaling Rs. 46.954 million.
 - The university organized seminars and workshops to promote research and innovation.

Sources: [UVAS Research Projects](#), [Pakistan Point News](#)

6.

Industry Linkages & Revenue Generation

- Industrial Linkages: ORIC promotes collaboration between UVAS and industry partners to bridge the gap between academic research and practical applications.
- Consultancy Services: Faculty members provide consultancy services to various industries, contributing to revenue generation.
- Intellectual Property Management: ORIC facilitates the protection and commercialization of research outputs through patent filing and licensing.
- Revenue Generation: While specific revenue figures are not publicly disclosed, ORIC's activities in consultancy, intellectual property licensing, and industry collaborations contribute to the university's revenue streams.

Sources: [UVAS ORIC Functions](#), [UVAS ORIC Intellectual Property](#)

Additional Research & Commercialization Projects

UVAS's ORIC oversees a diverse portfolio of research projects funded by national and international agencies. Notable projects include:

- Development of Ultrasound-Guided Oocyte Aspiration Protocols: Aimed at enhancing in-vitro embryo production in buffalo and Sahiwal cows.

- Genomic Screening of Silent Estrus Behavior: Focused on Nili-Ravi buffaloes to improve reproductive efficiency.
- Prevalence of Lactose Intolerance in Punjab: Investigating lactose intolerance and developing lactose-free dairy products containing prebiotic galacto-oligosaccharides.
- Molecular Characterization of Bovine Pestivirus: Targeting dairy animals in Pakistan to develop diagnostic and biosecurity measures.
- Development of Molecular Markers for Mastitis Resistance: Aiming to screen mastitis-resistant and susceptible animals.
- Enhancing Growth in Native Aseel Chickens: Employing selective breeding and identification of growth markers to alleviate rural poverty.
- Utilization of Poultry Litter and Dead Birds Compost: Exploring their use as livestock feed ingredients and agricultural fertilizer.
- Assessment of Aflatoxins Control Measures: Evaluating their impact on the performance of dairy animals in Punjab.
- Sequencing of Peste des Petits Ruminants Virus Isolates: Understanding genetic variations in isolates from Punjab province.
- Development of Phytobiotics in Poultry Production: Evaluating *Catharanthus roseus* as a phytobiotic.
- Evaluation of Buffalo Pink Veal Production: Assessing growth potential and economic viability.
- Role of Host Entry Factors in Foot and Mouth Disease Pathogenesis: Investigating the disease's pathogenesis mechanisms.
- Isolation and Characterization of Caprine Mycoplasma: Focusing on immuno-prophylaxis in goats.
- Comparative Effects of Dietary Supplements in Broiler Chickens: Studying antibiotics, probiotics, and prebiotics on performance and health.
- Pathobiological Investigations on Peste des Petits Ruminants Virus: Researching its impact on sheep and goats.
- Replacement of Antibiotics with Medicinal Plant Extracts in Poultry: Exploring alternative growth promoters.
- Molecular Characterization of Milk Production Genes in Camels: Aiming for marker-assisted selection in Pakistani camel breeds.

- Demonstration of Recombinant Bovine Somatotropin in Dairy Buffalo: Assessing lactation and reproductive performance.
- Isolation of *Clostridium Perfringens* from Meat Products: Identifying and toxinotyping strains from various meats.
- Culturing and Breeding of Catfish (*Pangasius pangasius*): Exploring aquaculture potential in Pakistan.
- Nitrogen and Phosphorus Dynamics in Fish Ponds: Studying the effects of various fertilizers.
- Detection of Emerging Meatborne Bacterial Pathogens: Evaluating control strategies for food safety.
- Effect of Dietary Fiber on Weight Reduction: Assessing the impact of fiber-supplemented foods.
- Improving Reproductive Efficiency in Cows: Implementing estrus synchronization and timed artificial insemination.
- Development of Soy Milk and Yogurt Using Indigenous Sources: Creating plant-based dairy alternatives.
- Reproductive Biology and Induced Spawning of Murrel (*Channa marulius*): Advancing aquaculture practices.
- Development of Standard Aqua Feed for Major Carps: Enhancing feed quality for aquaculture.
- Evaluation of Probiotic Bacteria in Poultry Production: Improving efficiency and health in poultry.
- Parthenogenetic Activation and Development of Mouse Embryos: Researching reproductive technologies.
- Genotypic Studies of Childhood Epilepsy Patients: Utilizing microarray technology for genetic analysis.
- Enhancing Mutton Production Through Genetic Management: Focusing on prolificacy management in sheep.
- Enhancing Buffalo Performance Through Improved Feeding: Studying feeding strategies up to first lactation.
- Development of Meat-Type Japanese Quail: Selective breeding for higher body weight.

- Development of Reliable Marker Panel for Cattle Breeds: Analyzing mitochondrial DNA for breed identification.
- Cytogenetic Characterization of Cow Bulls: Conducting molecular FISH studies for genetic improvement.
- Metagenomic Identification of Pathogens in Pakistan: Collaborative project with USAID for pathogen discovery.
- Analysis of Contaminants in Milk, Eggs, and Meat: Assessing antibiotics, heavy metals, mycotoxins, and pesticides.
- Strengthening Dairy Value Chain in Pakistan: Improving farm management and extension services.
- Bio-Statistical Consulting Centre: Providing statistical support for research projects.
- Molecular Characterization of Newcastle Disease Virus: Developing vaccination approaches.
- Spatial Ecology and Epidemiology of Soil-Borne Pathogens: Studying public health significance in Pakistan.
- Genetic Variation for Dairy Production and Health: Enhancing improvement in cattle and buffalo.
- Characterization of *Mycoplasma gallisepticum* Isolates: Developing biologicals for poultry.
- Identification of Molecular Markers for Nematode Resistance: Targeting sheep and goat breeds in Pakistan.
- Comparative Study of Ruminant Ammonium Transport: Collaborative research with DAAD.
- Bio-Risk Management of Dengue Vectors: Implementing control measures in Lahore.
- Genomic Study of Urial (*Ovis orientalis vignei*): Conservation genetics research.
- Development of LAMP Assay for *Mycoplasma* Detection: Creating cost-effective diagnostic tests for poultry.
- Estrus Synchronization in Buffalo: Aiming to save time for rural women in Khyber Pakhtunkhwa.
- Development of Novel Molecular Diagnostic Assays: Targeting infectious diseases in livestock.

- Development of Cost-Effective Hemorrhagic Septicemia Vaccine: Using edible vegetable oils as adjuvants.
- Development of Indigenous Equine Influenza Vaccine: Comparative efficacy study versus imported vaccines.
- Development of Bacteriophage-Based Remedy for Salmonella: Controlling infections in chickens.
- Development of Molecular Assay for Anthelmintic Resistance Detection: Focusing on stomach worms in livestock.
- Development of Recombinant Vaccine Against Bovine Theileriosis: Enhancing disease control measures.
- Development of Loop-Mediated Isothermal Amplification Test for Brucella abortus: Creating rapid field diagnostics.
- One Health Approach for Brucellosis Control: Integrating molecular diagnosis and epidemiology.
- Development of Model Poultry-Cum-Fish Farming: Implementing nutrient recycling and integrated approaches.
- Assessment of Antibiotics, Steroids, and Human Risk Factors in Poultry: Evaluating public health implications.
- Evaluation of Antimicrobial and Antioxidant Potential of Spices: Focusing on cardamom, clove, and cinnamon for food applications.
- Detection of Brucellosis Among Blood and Organ Transplant Donors: Assessing prevalence in Pakistan.
- Development of Shelf-Stable Beef Products: Creating cost-effective meat products for ambient storage.
- Innovative Processing and Packaging Technologies for Meat: Improving quality and shelf life of beef products.
- Population Pharmacokinetics of Vancomycin: Studying drug behavior in Pakistani patients.
- Development and Promotion of Straw-Based Pelleted TMR: Enhancing quality mutton production.
- Development of Inactivated Polyvalent Vaccines for Mastitis Control:

Office of Research, Innovation & Commercialization (ORIC) at the University of Wah (UW), Wah Cantt,

1. Department Name

- Office of Research, Innovation & Commercialization (ORIC)
-

2. Key Personnel

- Director ORIC: Prof. Dr. Amjad Hassan
- Additional Key Personnel:
 - Dr. Zuhair Subhani Khan – Director ORIC
 - Email:
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 - Mr. Aman Khan Naz – Manager Placement, ORIC
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 - Dr. Nadia Nawaz – Incharge ORIC, COMSATS University Islamabad Wah Campus
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 - Mr. Raja Asif Nazir – Superintendent ORIC, COMSATS University Islamabad Wah Campus
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 - Director ORIC: Prof. Dr. Amjad Hassan
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 - Incharge International Collaboration: Dr. Shumaila Naz

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 - Manager Placement: Mr. Aman Khan
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-

3. Contact Information

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-

4. Facilities

- Research Centers and Laboratories: UW hosts various research centers and laboratories equipped to support advanced research in engineering, sciences, and social sciences.
- Digital Resources: Access to digital libraries and online journals to facilitate research activities.
- Conference and Seminar Halls: Facilities to host workshops, seminars, and conferences aimed at promoting research and innovation.

- Collaboration Spaces: Dedicated areas for collaborative projects between academia and industry partners.
-

5. Research & Commercialization Projects

Approved Research Grants (2022)

- National Research Program for Universities (NRPU) by HEC:
 - Neutrino cooling and decay rates for important weak interaction nuclei for core-collapse supernova simulations
 - PI: Prof. Dr. Jameel-Un Nabi
 - Co-PI: Dr. Muhammad Riaz
 - Waste Water Remediation: Design of sustainable hybrid membranes to mitigate hazardous pollutants
 - PI: Dr. Humaira Razzaq
 - Co-PI: Dr. Faiza Asghar
 - Biomimetic Hydrogel Nanocomposites for Injectable Drug Delivery and Tissue Engineering Scaffolds Applications
 - PI: Dr. Mussamir Khan
 - Co-PI: Dr. Fawad Ahmad
 - Synthesis, spectroscopic characterization, pharmacological investigation and DFT study of ferrocene-modified acyl ureas
 - PI: Dr. Faiza Asghar
 - Role of Imidazole and Phenanthroline Derivatives on The Biology of Leukemic Stem Cells
 - PI: Dr. Dilawar Khan (Assistant Professor, NUST)
 - Co-PI: Dr. Zaheer Ahmed (UW)

- Molecular Characterization of bacterial isolates and their application for organophosphates biodegradation in peach orchards
 - PI: Dr. Mazhar Rafique (Assistant Professor, University of Haripur)
 - Co-PI: Ms. Bushra Gul (UW)
- Joint Scientific Exchange Program Between PSF and NSFC:
 - China-Pakistan nexus of electronic vehicle industry chain and coordinated development policy
 - PI: Dr. Asma Arif
- International Grant Institute of Physics:
 - International Member Grant
 - PI: Prof. Dr. Jameel-Un Nabi
 - Co-PI: Dr. Matiullah Shah

Submitted Research Grants (2023)

- Rapid Technology Transfer Grant (RTTG) by HEC:
 1. The Future of Tree Protection: An AI Solution for Monitoring and Management of tree population in Wah-Taxila Region
 - PI: Dr. Syed Waqas Hassan
 - Amount: PKR 5,863,750
 2. Cost Effective App Designing for Pest and Weed Management in Potohar Region via Drone
 - PI: Dr. Razia Bibi
 - Co-PI: Dr. Farhat Yasmeen
 - Amount: PKR 7,830,000

- RASTA Competitive Grants by PIDE:
 1. Gender Issues in Pakistani Rural Health Care System
 - PI: Dr. Anam Javeed
 - Co-PI: Dr. Faiza Saleem
 - Amount: PKR 3,954,170
 2. Geriatric Patients' Evaluation and Management in Pakistan: A Market Equilibrium Analysis
 - PI: Dr. Mahwash Ghafoor Chaudhry
 - Amount: PKR 3,752,873
 3. Pharmaceutical Industry Regulation and Challenges
 - PI: Dr. Khurram Shehzad Baig
 - Co-PI: Mr. Fazeel Ahmad
 - Amount: PKR 4,000,000
 4. Design and Development of Voice and Gesture Controlled Smart Wheelchair Using DC Motors for Specially Abled Persons
 - PI: Ms. Anas Ibrar
 - Co-PI: Dr. Sohaira Ahmad
 - Amount: PKR 2,073,390
- 7th Call for Proposals on Nanotechnology, Materials, and AI by PSF:
 1. Suspicious Activities Detection Through CCTV Cameras
 - PI: Dr. Javeria Amin
 - Amount: PKR 20,000,000
 - AI-based Non-Invasive Blood Glucose Monitoring Device
 - PI: Dr. Haris Masood
 - Co-PIs: Prof. Dr. Aamir Hanif, Dr. Waseem Shehzad

- Amount: PKR 13,500,000
7th Call for Proposals on Nanotechnology, Materials, and AI by PSF
(continued):

Nano-Electrocatalysts for Bio-Oil Upgradation to Biodiesel (Biofuel)
 - PI: Dr. Khurram Shahzad Baig
 - Co-PI: Dr. Muhammad Aslam Khan
 - Amount: PKR 10,500,000
- Incorporation of Nano-Silica and Industrial Waste along with Magnetized Water in CLC/AAC lightweight concrete blocks/panels for energy efficient and sustainable building construction
 - PI: Mr. Muhammad Haroon
 - Co-PI: Mr. Syed Salman Ahmad Zaidi
 - Amount: PKR 14,100,000
- Behavior of GFRP bar-reinforced GO concrete columns
 - PI: Dr. Habil Ahmad
 - Co-PIs: Dr. Taimur Mazhar Sheikh, Mr. Bilal Masood
 - Amount: PKR 12,500,000
- Enhancing Water Purification Efficiency through the Development of Mechanically Stable 2D MXene and Nanocomposites
 - PI: Dr. Faisal Nawaz
 - Co-PI: Prof. Syed Waqas Hassan
 - Amount: PKR 9,750,000
- Selective recovery of gold from electronic-waste (e-waste) with amidoximated clay polymer nanocomposite
 - PI: Dr. Shaista Taimur
 - Amount: PKR 7,500,000

6. Industry Linkages & Revenue Generation

- Memorandums of Understanding (MoUs): UW has established over 50 MoUs with national and international universities, research organizations, industries, and tech companies. These collaborations aim to enhance academic exchange, joint research, technology transfer, and industry linkages, thereby amplifying UW's impact on global innovation.
- Collaborative Activities:
 - Joint Projects: Engagements in collaborative research projects with industry partners.
 - Faculty Exchange: Programs facilitating the exchange of faculty members between UW and partner institutions.
 - Student Internships: Opportunities for students to gain practical experience through internships in industry settings.
 - Technology Transfer & Commercialization: Efforts to translate research outcomes into marketable products and services.
 - Conferences, Workshops, and Seminars: Regular organization of events to foster knowledge sharing and innovation.
- Revenue Generation: While specific revenue figures are not publicly disclosed, UW's active participation in funded research projects, industry collaborations, and commercialization activities contribute to its revenue streams.

Ziauddin University, Karachi

1.

Department Name

- Office of Research, Innovation & Commercialization (ORIC)
-

2.

Key Personnel

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- Manager Research, Operation, and Development: Mr. Sohail Rehman
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3.

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-

4.

Facilities

- Multidisciplinary Research Laboratories (MDRLs):
 - MDRL1: Cell Culture Facility
 - MDRL2: Cell Biology & Histology Lab
 - MDRL3: Molecular Genetics Lab

- MDRL4: Animal House Facility
 - Other Labs:
 - Molecular Biology Lab
 - Proteomics Lab
 - Bioinformatics Lab
 - Services Offered:
 - Primary cell culture, stem cell isolation, gene polymorphism studies, real-time PCR, ELISA, Western Blotting, HPLC, immunohistochemistry, and more
 - Equipment Available:
 - Class II Biohazard Safety Cabinet, Live Cell Imaging Microscope, Thermal Cyclers, qPCR machine, Nikon Ts2R-FL Inverted Microscope, and others
-

5.

Research & Commercialization Projects

- Research Achievements:
 - 192 high-impact factor publications
 - 32 HEC-recognized Ph.D. supervisors
 - 35 research proposals submitted to NIH in 2022-2023, with 4 projects awarded
- Commercialization Initiatives:
 - Establishment of a Business Incubation Centre (BIC) with 6 active startups in the pre-incubation phase
 - Partnerships with organizations like Sehat Kahani and SMEDA for collaborative research and technology development

- Notable Projects:
 - Modular Air Quality Monitoring System
 - EduLearn Tools for Speech & Language Therapy
 - Anatomage Table for medical education
 - Research on abstract concepts in science education
-

6.

Other Information

- Industry Linkages:
 - Collaborations with national and international institutions, including Hacettepe University (Turkey), Monash University (Australia), University of Bedfordshire (UK), and Valparaiso University (USA)
 - MoUs with organizations like Sehat Kahani, SMEDA, and Grow Safe for research and development initiatives
- Revenue Generation:
 - Secured national and international funding amounting to PKR 63.72 million in 2020-2021
- Sustainability Initiatives:
 - Established a Sustainability Office to promote research aligned with the United Nations Sustainable Development Goals (SDGs)
 - Member of the United Nations Academic Impact (UNAI) and the SDG Academy Community of Practice

