



Cover Story
BU PMSTP - Tides of Innovation

Edition 2



GLE 2023

PULSE OF BAHRIA



BU PMSTP – Tides of Innovation!

Bahria University launched the Pakistan Maritime Science and Technology Park (PMSTP) Pilot Project at Bahria University Karachi Campus. PMSTP aims to boost the maritime sectors, including coastal tourism, aquaculture, shipbuilding, shipping, renewable ocean energy, and seawater desalination. This initiative is expected to contribute significantly to Pakistan's national GDP and enhance the livelihoods of coastal communities. Continue reading on page # **18**



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BAHRIA MAKES IT TO TOP 2% SCIENTISTS LIST OF THE WORLD BY STANFORD UNIVERSITY



Prof. Dr. Shehzad Khalid

Principal,
(Bahria School of Engineering
and Applied Sciences)



Prof. Dr. Muhammad Ramzan

Senior Professor
(Mathematics)



Muhammad Kamran Khan

Senior Lecturer
(Management Studies
Department)

2023

www.bahria.edu.pk

A celebratory scene featuring several graduation caps (mortarboards) in various colors (black, blue, red) scattered across a surface covered in colorful confetti. The background is a warm, golden-brown gradient with falling confetti and streamers. The text "Dastaan-e-Bahria" is centered in a white, elegant cursive font, framed by two horizontal white lines.

Dastaan-e-Bahria



Ms. Saima Javaid
Communications Specialist
Akhter Hameed Khan Foundation
BS Telecom 2008

Ms. Javaid loves making beautiful visuals and changing the world with technology. Helping others is her passion. She has spent over a decade presenting difficult stories and influencing the world through strategic communications, media engagement, and action. Ms. Javaid teaches via ancient and modern media. This includes contributors, volunteers, policymakers, partners, personnel, and recipients.

Her strengths include strategic communication and creative socialising. Her social media skills engage WhatsApp, IVR, Radio, and Robo Calls users. Video, PR, project reports, case studies, and success stories are her specialties. First woman to cover 2022 Sindh Flood. She organised and documented Angelina Jolie's September 2022 Dadu, Sindh, and Islamabad tour.

Health, emergency response, WASH, and refugee documentaries are her specialisations. She knows Office, Wonder Share, Canva, and Premiere Pro. Javaid teaches Excel at her firms. Rescue Committee taught her. The USAID-funded Pakistan Reading Project, Roshan Telecom Company in Kabul, Afghanistan, and Du Telecom in Dubai have showcased her work.

Ms. Javaid's passion, technical skills, and visual storytelling inspire people and organisations worldwide. Her ability to inspire and explain complex topics has always worked. It inspires and shows how smart communications improve life.

A Beacon in the ICT and Humanitarian Sector

From Marketing Maverick to COO & CCO of GRID

Mr. Rizwan Nusrat

COO & CCO

GRID

BBA- 2007 & MBA – 2011

Mr. Rizwan's marketing skills, from product launches to worldwide brand management, shine through. GRID's COO and CCO, he led the design and development of Breshna, a no-code gaming platform with 161K users, to achieve the company's vision and strategy. His leadership has sparked the gaming community's zeal, with 99K actively generating games.

His role goes beyond GRID. Rizwan, Executive Director of the US non-profit Gaming Revolution for Inspiring Development, is changing educational gaming. Mr. Rizwan balances commercial development and concept creation to create educational and inspiring games. His time as Eighteen and Emaar's Head of Marketing stood out.

He made Eighteen a lifestyle destination in Pakistan, not just a real estate venture. His creative marketing initiatives in 2021 generated PKR 3.2 billion in sales. Mr. Rizwan establishes new standards with his brand and marketing strategy knowledge. His ideas focus on relationships, consumer involvement, and ROI, not simply numbers.

Mr. Rizwan has given two TEDx presentations to interested audiences outside the boardroom. His work, "Advert Exploitation," explores advertising's impact on youth. In addition to success, Rizwan's tale is about passion, creativity, and changing marketing and beyond.



From Classroom to Newsroom



Mr. Sharjeel Arshad
News Anchor
AAJ TV
BS Media Studies 2019

Mr. Sharjeel Arshad, a proud alumnus of Bahria University, graduated in 2019 with a specialization in Electronic Media from the BS Media Studies program (Batch: 2015-2019). Today, he stands in the limelight as a news anchor for Aaj TV, enriching his resume with esteemed stints at notable media organizations such as Express-News, BOL TV, Metro 1, Dialogue Pakistan, News One, and K21 News.

In addition to his national contributions, Mr. Sharjeel has made a mark on the international media landscape, producing investigative documentaries for globally recognized outlets like Al Jazeera, Sky News UK, and Vice. He attributes his meteoric rise and accomplishments in the media industry to the unwavering support, education, and mentorship provided by the esteemed faculty and the Media department at Bahria University. His journey serves as a beacon for budding media professionals, illuminating the potential of dedicated learning and perseverance.



Mr. Khurram Rasheed
Group Head Admin
PARCO
MBA, 2003

We are honored to highlight Mr. Khurram Rasheed, an outstanding Bahria University Karachi graduate. After earning his MBA in marketing in 2003, Khurram's business career has been stellar.

He rose quickly as a Relationship Officer for Corporate Clients at a multinational organization due to his skill and dedication. He began a new chapter in his career at Pakistan's premier oil refinery, PARCO. His significant contributions and continuous performance confirmed his industry leadership.

The skills and information Mr. Khurram learned at Bahria University are crucial to his success. He values the university's distinguished teachers and resources for helping him achieve his career goals.

Mr. Khurram's tale exemplifies Bahria University's commitment to developing leaders. We are proud of his achievements and excited about his future in his promising career.

From Bahria University to Corporate Leadership

Navigating the World of Psychology to Corporate Triumph



Ms. Sabin Jawed

Lead HR Manager, Corporate HR Functions, OD Projects & HR Communication

The Searle Company Limited (Part of the IBL Group)

PMD 2014 & MSC 2008

Ms. Sabin chose psychology in 9th grade. Her curiosity led her to research before the internet. Bahria University Institute of Professional Psychology awarded her MSc. This period enhanced her life. Faculty excitement and challenge helped her learn and make friends.

Though she loved clinical practise, she liked business. Her career began as a school counsellor. She could combine psychology and business structure in an HR & OD Consultancy two years later. She did HR "Training Design & Delivery." Corporate clients gave her work. She promoted company-wide mental testing and treatment to fulfil demand.

Ms. Sabin has HR functional and operations experience. Her research and development varied. Her impact reaches beyond HR to society. So she joined Searle to develop her career. She improved business culture and abilities, not just her CV. Psychology helped her non-business education. Her interpersonal and communication abilities strengthened HR and People & Culture. Her tale continues. The next chapter promises additional success.

From Uncertainty to Unveiling a Passion for Mental Health

Dr. Naima Fatima Sheriff
Consultant Clinical Psychologist
CEO and Co-founder, Kumak -The Journey to Wellness
PhD 2022, BS-Psychology 2014

The Bahria University Institute of Professional Psychology changed Dr. Naima's life. Faculty of IPP believed in her even when she doubted herself, and she went from directionless student to top and position holder, obtaining a Silver Medal and cum laude for her BS.

IPP sparked her mental health interest. Thinking clearly, she chose a Clinical M.Phil. in Professional Psychology. Clinical in charge in 2013, she gave back to IPP, which changed her life. Her talent and perseverance earned her a permanent faculty post the following year.

Naima got her PhD from IPP. Though rewarding, this pursuit was hard. Work and health issues depressed me. Her IPP family's unflinching support saved her. In 2022, she earned a 4.0 CGPA PhD with faith.

She runs a mental health practise, trains psychologists, supervises therapists, and works on international projects. Strangely, she went from trashy girl to industry leader. Doctor Naima credits her IPP family, her rock, for her metamorphosis. She will always be grateful and treasure the institute as a shelter.



A Beacon of Academic and Medical Excellence



Dr. Hafiz Muhammad Motsim Tariq
Resident Medical Officer
Aga Khan University Hospital
M.B.B.S. 2020

Dr. Hafiz Muhammad Motsim Tariq is a famous BUHS alum. His MBBS class was 2016–2020. Dr. Motsim excelled academically throughout his career. After being accepted into the MBBS program for free, he excelled. He earned six merit certificates and distinctions in 15 of 17 MBBS subjects. He won a gold medal for his academic excellence.

After his MBBS, Dr. Tariq interned at Aga Khan University Hospital. After his internship, he became a resident medical officer in oncology at the same hospital. He autonomously ran the ward and SCU. Dr. Tariq passed his anesthesiology FCPS-I on his first try, demonstrating his dedication to learning. His desire to become an anesthesiologist and intensive care physician led him to Indus Hospital in Karachi for residency. A critical care medicine fellowship followed.

In addition to his clinical duties, Dr. Tariq is working on two international research projects with Aga Khan University and studying for foreign residency exams.

Bridging Orthopedics and Digital Outreach

Dr. Ayaz Mansoor
Orthopedic Studies
The Indus Hospital & Health Network
MBBS 2017

Dr. Ayaz Mansoor, a 2012–2017 BUHS MBBS graduate, is notable. He was active in academics and extracurriculars at BUHS. He was the Event Club President and Bahria Medics Co-President. After graduating, Dr. Mansoor worked as a house doctor at PNS Shifa Hospital. He became a postgraduate general surgery trainee at the same institution in 2019 due to his dedication to his work. After a year, he joined Civil Hospital Karachi for training.

Dr. Mansoor began orthopedic studies at The Indus Hospital and Health Network due to his interest. His hard work paid off as he completed his Intermediate Module in 2021. Dr. Mansoor is active on social media outside of medicine. He discusses surgical treatments and ordinary and unusual situations on Instagram and Snapchat, attracting a large audience.

While surgery is his passion, Dr. Mansoor has a great goal. After finishing his training, he wants to return to rural Sindh to help people with orthopedic issues.

He regularly boasts that BUHS has produced many great alums making substantial contributions to medical professions worldwide.



NEWS FLASH



Bahria University is committed to maintaining close relationships with its Alumni and works on strengthening their network. It consistently monitors and ensures connections with Alumni by involving them in University Affairs and recognizing and appreciating them differently. In continuation to maintaining this relationship with BU Alumni, the Directorate of Students Affairs created an Alumni **“Wall of Honour”** and a wall of

Pictorial Memory of Alumni Coming Back Home as **“Welcome Home”** designed for BU – Engineering Campus, which well placed BU- Alumni, represents the success story of BU. This Alumni Wall of Honor consists of 50 well-placed engineering graduates/ Alumni Initially and will be extended gradually. The Wall was Inaugurated by BU Honorable Rector Vice Admiral (R) Asif Khaliq HI(M).

A dark green, five-pointed star-shaped object is centered in the image. It is set against a background of blue fabric with a subtle, wavy pattern. A solid green horizontal band is overlaid across the middle of the image, containing the text. The text is written in a white, elegant cursive font and is framed by two thin white horizontal lines.

Sitaron Se Agay

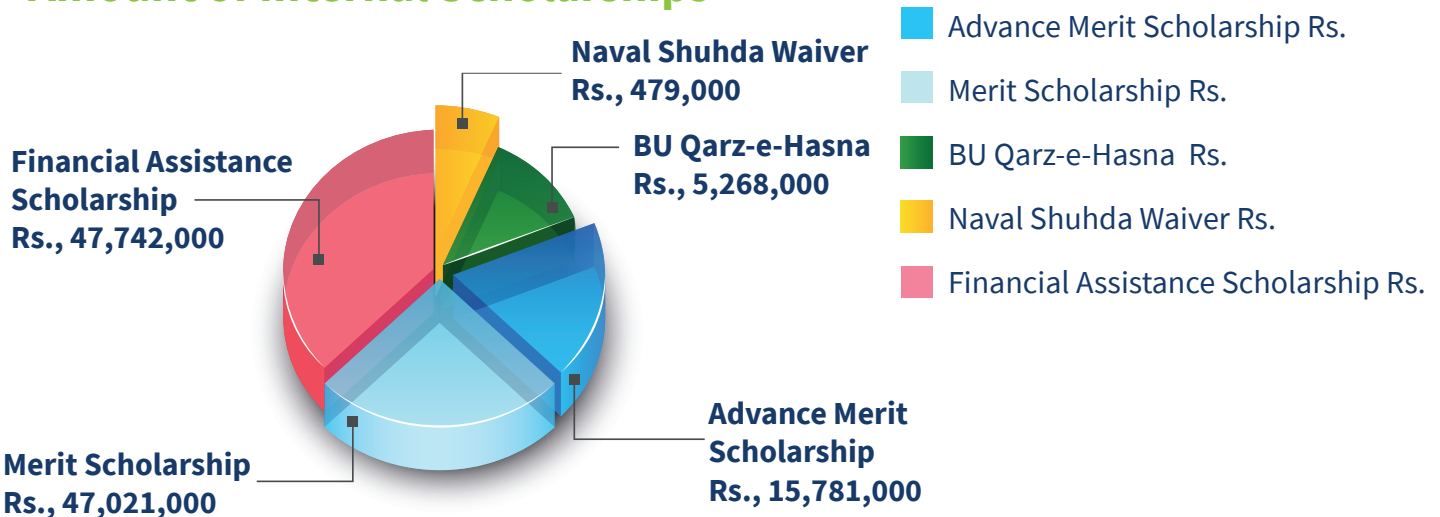
Dedicated to the achievement of its students, Bahria University extends a range of scholarships, both internal and external. These scholarships offer crucial financial assistance and acknowledgment to deserving individuals, empowering them to confidently and resolutely pursue their academic aspirations. This noteworthy accomplishment underscores the university's steadfast commitment to nurturing academic excellence and ensuring equal opportunities for everyone.

INTERNAL SCHOLARSHIPS

Bahria University proudly presents an array of internal scholarships awarded in the FY 2022-23. These internal scholarships, meticulously designed to meet the diverse needs of students, serve as a testament to the university's dedication to providing equal opportunities for all.

With an impressive 3,030 scholarships awarded, Bahria University invested a staggering 116.491 million rupees to empower its students. The Advance Merit Scholarship, Merit Scholarship, BU Qarz e Hasna, Financial Assistance Scholarship, and Naval Shuhda Waiver are among the prestigious scholarships recognized for their outstanding contributions to student support. Each scholarship represents a stepping stone toward transforming dreams into reality. The university's holistic approach to education ensures students have the necessary resources to thrive academically and personally.

Amount of Internal Scholarships



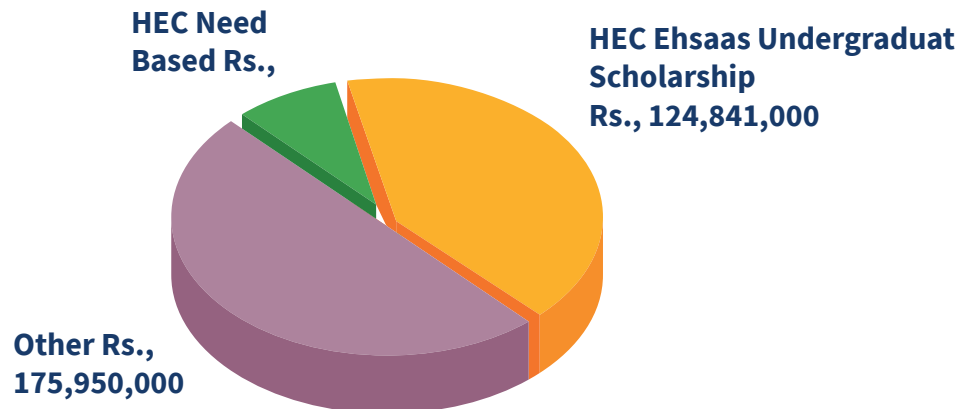
External Scholarships

Bahria University proudly unveils the extraordinary impact of external scholarships awarded in the FY 2022-23 academic year; these external scholarships serve as a testament to the university's dedication to providing a platform for students to explore and excel beyond borders.

In its commitment to support, Bahria University has disbursed 174.386 million rupees across 803 external scholarships. These scholarships, funded by esteemed organizations such as the HEC, Sind Education Endowment Fund (SEEF), Worker Welfare Fund, etc., symbolize the university's commitment to creating a global network of knowledge and excellence.

These scholarships represent an invaluable opportunity for students to broaden their horizons and contribute to their respective fields. The institution is proud of the exceptional recipients selected for these prestigious external scholarships and encourages them to make the most of these transformative experiences.

Amount of External Scholarships Awarded



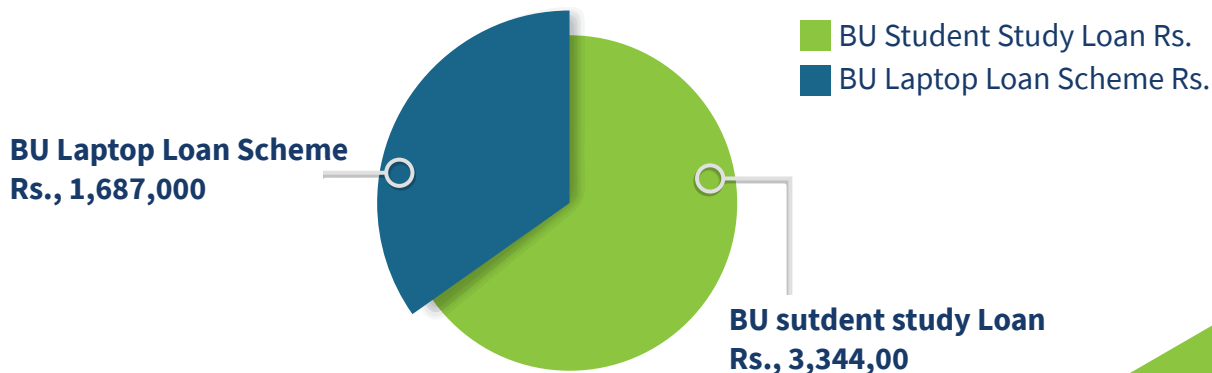
Interest-Free Loans & Sponsor A Student Scheme

The University strongly opposes any instances of financial exploitation and is committed to expanding opportunities for its students. In the fiscal year 2022-23, interest-free loans of 3.3 million Rs were provided. Additionally, a sponsorship program has been initiated to cover academic expenses for deserving students, supported by generous sponsors. Leveraging its thriving Alumni Networks and partnerships with individuals and organizations, the university facilitates connections between deserving students and benefactors.

Distribution of Prime Minister's Laptop Scheme – Phase III (2022-23)

The distribution of laptops to students under the Prime Minister's Laptop Scheme is paramount for Bahria University. In an era of digital technology, these laptops are indispensable tools for students to access online resources, conduct research, and enhance their learning experience. They empower students to bridge the digital divide, ensuring they are well-equipped for the demands of modern education and the job market. These laptops facilitate academic excellence and foster digital literacy and skill development, empowering our students to become more competitive and proficient in an increasingly tech-centric world. Thus, the Prime Minister's Laptop Scheme is a pivotal initiative that empowers Bahria University students to reach their full potential and contribute effectively to the nation's progress.

Amount of Loans FY 2022 - 23



Research Activities

Funded by HEC Under NRPU

Project Title:

Design and Development of a High-Speed 3D-Optical Scanner based on Machine Vision for Parts Manufacturing Industries in Pakistan

Project Brief

Surface measurement is an important task in the field of metal and its finished product, and it is a complicated task. This research was conducted to develop an optical-based prototype instrument for the hi-precision components and metallic parts such as engine parts.

Project Outcomes

The objective of this research work is to measure the surface of precision metallic components in the range of mm to micrometer. The prototype developed is a 360-degree optical surface measurement instrument. It is beneficial for inspecting expensive industrial metallic parts such as Dies Molds for their micrometer surface variations.

Customizable software can be utilized for many machine components. The dimensions and defects on the surface are computeable. The developed device has the potential to be used as an online device for real-time measurement in the flat sheet metal mills in Pakistan. Beneficial for the quality/standard organization and the research institution in Pakistan.

The research team produced 03 MS students (by research work) with 01 paper presentation at the international conference. This project was started in 2018 and completed in 2022 with an overall cost of Rs. 8.84 Million.

Author:

PI Name: Dr. Muhammad Anzar Alam

PI Designation: Senior Associate Professor

University: Bahria University, Islamabad

Project Title:

A Modern Eco-friendly Aquaculture Technology the Biofloc “A Green Approach” to Boost up Aquaculture Production: A Step Towards the Blue Economy

Summary:

Biofloc-based farming revolutionizes small-scale aquaculture with cost-effective technology. Ideal for small landowners with limited space and access to water sources, this approach transforms fish waste into live feed, cleansing the cultivation water. Aquariums of various sizes nurture fish and shrimp, maximizing control and handling. Biofloc technology converts aqua animal waste into protein-rich live feed, reducing feed costs and boosting profits. It's an eco-friendly solution with low land, food, water, and waste sludge expenses, cutting fish feed costs significantly. Coastal communities can adopt this approach to provide protein and employment opportunities for the less fortunate.

Project Outcome:

- Establishment of a successful small-scale model of aquaculture.
- Employment generation in unemployed youth, especially fresh graduates.
- A step towards sustainable smart aquaculture technique in Pakistan.
- A trained manpower will be produced for the society in the future.
- A very short-term business plan and even people will culture on the roofs of houses.
- An alternative source of livelihood for local peoples.
- Modern research and conservation approach.

Author: Dr. Naveed Ahmad

Designation: Senior Assistant Professor Department of Maritime Sciences and Head of Aquatic Diagnostic & Research Center

University: Bahria University Karachi



» BU PMSTP - Tides of Innovation!

Former Chief of the Naval Staff Admiral Muhammad Amjad Khan Niazi launched the Pakistan Maritime Science and Technology Park (PMSTP) Pilot Project at Bahria University Karachi Campus. PMSTP aims to boost the maritime sectors, including coastal tourism, aquaculture, shipbuilding, shipping, renewable ocean energy, and seawater desalination. This initiative is expected to contribute significantly to Pakistan's national GDP and enhance the livelihoods of coastal communities.

The launch of PMSTP represents Bahria University's efforts in promoting maritime education, research, innovation, and commercialization. PMSTP intends to emphasize the untapped potential of the seas and the importance of fostering maritime sciences and industries to drive economic growth alongside the need for increased collaboration among maritime stakeholders to maximize the benefits of the China-Pakistan Economic Corridor (CPEC) and harness the potential of the Blue Economy.

Vice Admiral (Retd) Asif Khaliq, the Rector of Bahria University, highlighted the PMSTP project as a solution to Pakistan's economic challenges. He revealed plans to construct a 350,000-square-foot infrastructure housing over 15 Centers of Excellence and R&D centers to support the maritime industry's growth, which has the potential to contribute significantly to the national GDP and job creation.

Commodore (Retd) Arshad M. Khan, the Director of Pakistan Maritime Science and Technology Park, emphasized the project's significance in optimizing Pakistan's maritime sector. The event was attended by various dignitaries, including Advisor to the Prime Minister on Maritime Affairs Vice Admiral (Retd) Iftikhar Ahmed Rao, former Chief of the Naval Staff Admiral (Retd) Shahid Karimullah, ambassadors, diplomats, university rectors, civil and military officers, and industry representatives.



Hall of Fame

gaudmire victory!



Acedia

Acedia game development startup at BIC, Bahria University Islamabad Campus, secured a grant of \$25000 from the Build Space Initiative. Acedia, competing with over 7,500+ global applications, made it to the finals and was declared the Nights & Weekends global competition winner. Acedia is developing 'Split Horizons,' a thrilling 3D adventure video game, an interactive storytelling gaming platform. Nights & Weekends is a 6-week online creative program at Build Space, San Francisco, Silicon Valley.

Farm Dost

FarmDost, a startup at BIC, BUIC working in Agri-tech, has secured a seed grant of \$15000 as part of the Acumen Academy's Pakistan Agriculture Accelerator. FarmDost is dedicated to reducing post-harvest losses in agriculture via a mobile-based platform that connects farmers with buyers and innovative hermetic storage bags equipped with QR codes to increase the shelf life and monitor the supply chain of the produce. Acumen Academy's Pakistan Agriculture Accelerator offers a unique support package for Agri-entrepreneurs looking to develop a scalable social enterprise model.





Pakistani Startups Shine Beyond Borders

Mr. Muhammad Ali Qasim, Manager BIC BUIC, proudly represented Pakistan's thriving startup ecosystem in front of a pool of venture capitalists at Innovation Hub, Eugene, Oregon, USA. Mr. Muhammad Ali Qasim also led a group of talented female entrepreneurs from Pakistan, where they had the chance to shine and showcase their groundbreaking products and services, showcasing our nation's innovation and potential. Together at BU, we're rewriting the story of entrepreneurship in Pakistan. Let's keep pushing boundaries and reaching for the stars.

BIC BUIC Startups Secure ISF Grant of \$70000

The Innovator Seed Fund (ISF), a flagship initiative under the Higher Education Development Program (HEDP), was launched by HEC to engage entrepreneurs and upcoming aspirants who want to convert their innovative ideas into successful businesses.

With great pleasure, 2 Startups, i.e., Wiser Machines and Robotics World of Bahria Innovation Center, BUIC's startups, have been awarded grants of \$35000 each under HEC's Innovator Seed Fund program. The Innovator Seed Fund (ISF) is a prestigious funding opportunity that empowers promising startups to bring their innovative ideas to life. It catalyzes early-stage entrepreneurs, offering financial support and resources to fuel their entrepreneurial journey. Winning the ISF is a significant milestone, opening doors to growth, development, and the realization of groundbreaking innovations.



Best In Pakistan - Another Milestone Achieved

Bahria University's Incubation Center has earned remarkable recognition, being one of the few incubators creating an impact in the startup ecosystem of Pakistan. We are proud to announce that it has achieved "W Category" status, making it one of the three university incubators in the country acknowledged by the Higher Education Commission (HEC).

In addition, the Incubation Center has secured an impressive second place among 34 universities in Pakistan, per the recent ranking conducted by HEC.

This recognition by HEC is a testament to Bahria University's commitment to fostering research, innovation, and the successful development of ideas into businesses. The Incubation Center, equipped with state-of-the-art facilities, provides a nurturing environment for aspiring entrepreneurs and supports the growth of viable ventures.





AI-Driven Hackathon

An AI-driven hackathon was organized at COMSATS University, and we're thrilled to share that our startup, Atlantic Digital Services, specializing in AI-based solutions, emerged as the first prize winner, securing a substantial cash prize of Rs.100,000. Their victory underscores their prowess as AI solution providers and their commitment to pushing the boundaries of innovation

Meet Our Team

Patron



**Saba
Khan**

**Director Marketing
Directorate of Marketing (BUHO)**

Creative Head & Editor-in-Chief



**Maham
Malik**

**Publications Officer
Directorate of Marketing (BUHO)**

Illustrative Storyteller



**Laraib
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Graphic Designer

Visual & Images



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