BAHRIA SCHOOL OF Engineering & Applied Sciences (BSEAS)



Karachi, Pakistan



Overview

The Bahria School of Engineering & Applied Sciences (BSEAS) at Bahria University Karachi Campus was established in March, 2020 with an objective to produce graduates in the field of engineering and applied sciences through quality education and applied research. The BSEAS is an integration of four departments;

- Department of Electrical Engineering
- Department of Computer Engineering
- Department of Software Engineering
- Department of Computer Sciences

A school is currently offering 12 Bachelors, Masters and Doctorate programs. All engineering undergraduate programs are accredited from Pakistan Engineering Council while all computing programs are accredited from the National Computing Education Accreditation Council. BSEAS holds a steadfast dedication to cultivating proficient engineers and computing professionals who will contribute to enhancing human welfare.



Key Services

BSEAS is proficient in providing services in the following areas:

- Academic Programs
- Professional Development
- Community Service
- Consultancy
- Technical Facilities

Professional Development

The BSEAS with the help of the Bahria University Leadership and Professional Development center (LPDC) to conduct faculty development trainings, workshops, short courses etc. for students, faculty and professionals to improve technical, managerial and personal skills in a vast array of disciplines.

Community Services

Community service initiatives can foster a sense of social responsibility among students, provide them with practical experience, and establish a positive relationship between the department of the BSEAS and the local community.



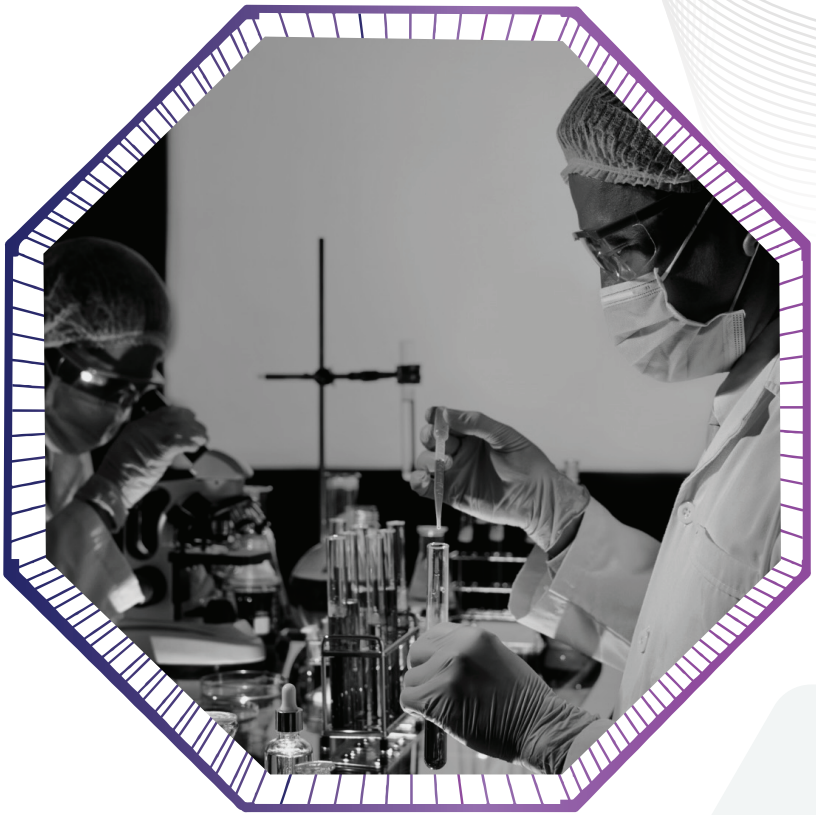
Consultancy

The BSEAS is providing consultancies to industry through collaboration in projects. The following potential areas are as under:

- Programming Languages:
  Java, C#, C, Aseembly Python, JavasScript, etc.
- Web Technologies:
  HTML5, CSS3, React, ASP.Net, Node.js, etc.
- Internet of Things:
  Wireless Sensor Networks, Next Generation Networks, etc.
- Artificial Intelligence:
  Machine Learning, Deep Learning.
- Agile Development:
  Scrum, Kanban, Extreme Programming, etc.
- Power & Renewable Energy:
  Power Electronics, Solar and Wind Energy, Geothermal Energy, Hydroelectricity, etc.
- Big Data:
  Database Management, Data Mining, Business Intelligence, Data Visualization, etc.



- DevOps & Support:
  Docker, Kubernetes, Git, Vercel, etc.
- Robotics:
  Humanoid Robot, Robotic Vision, Tactile Sensing, Multi-agent, etc.
- Research & Development:
  Quantitative Research, Qualitative Research, etc.
- MobileApp Development:
  Android, React Native, Flutter, etc.
- Semantic Web:
  Protege, Ontology Development, etc.
- Embedded System:
  Cyberphysical Systems, Embedded Software, Microcontrollers, etc.
- Cyber Security:
  Network Security, Cyber threat intelligence, Intrusion detection, etc.



Research And Innovation

The BSEAS places a strong emphasis on fostering research and innovation. Serving as a multidisciplinary academic unit, it addresses both challenges and recent developments within the realm of Engineering and Applied Sciences. The faculty members play an integral role in diverse research endeavors; actively contributing to research publications, securing research funding projects. To date, the BSEAS has achieved a noteworthy milestone of publishing 1026 research publications. Till now, BSEAS has secured worth of around Rs. 55.5 M in total of 43 research projects.



Industry - Academia Partnerships

The Software Engineering department has a collaboration with private sector company “CreativCrux” which was established with the vision to offer end-to-end marketing solutions for business owners who seek service providers to trust their brand completely. Their team strives to brainstorm extraordinary ideas for marketing the client’s brand, planned to perfection, and executed to the dot

The Electrical Engineering department has collaboration with private sector company “The Disrupt Labs” which helps manufacturing companies, warehouses and outdoor electrical and telecom sites with visual inspection, safety, security, and efficiency improvements by adding AI to their visual sensors such as CCTV cameras, and machine vision cameras.

Employment Collaborations

- Alkhidmat Foundation
- Architectkar
- Arthur Lawrence
- Bahria Enterprise Systems And Technologies
- Bahria Foundation
- Career Resource Force
- Cloud Specialists, Llc & Axiom Education
- Codabeam
- Codex Security
- Cyphion Pvt Limited
- Ddevops
- Digitallandscape Pvt Ltd
- Efu Life Assurance Ltd.
- Enginairs
- Fifth Thought
- Global Tech Houses
- Go Live Tech Services
- His Industries
- Http 200
- Itretina
- Matrix Systems Pvt. Limited
- Mean3
- Media Monitors Pakistan
- Media Monks
- Minimax Solution Pvt.
- Nettcore
- Polar Cloud
- Precision Engineering Complex
- Prism Pay
- Pumpjack Dataworks
- RS Softwire
- Server4Sale
- Soneri Bank Limited
- Squarera

- Systems Limited
- Tafsol Technologies Private Limited
- TechIt Services
- Techma zone
- Techrotics Technologies Lab
- RS Softwire
- Sui Southern Gas Company
- PTCL
- K-Electric
- Civil Aviation Authority
- Silicon International
- Siemens
- Nabi Qasim Industries Pvt Ltd
- PIA
- Naval Precision Electronics Complex
- Karachi Shipyard & Engineering
- Orient
- NTDC
- NLC Express Freight Train
- Ideal Power Solution Pvt Ltd
- Schneider Electric
- Artistic Denim Mills
- Yunus Textiles Mills Ltd
- Pakistan Cables
- Folio3
- TPS Worldwide
- Envision Technology
- Bits Collision
- Minibig Technologies
- MMC Global
- SAAZ Solutions
- Karachi International Container Terminal Ltd



Corporate Advisory Committee (CAC)

In BSEAS, every department has its own Corporate Advisory Committee (CAC), which comprised of professionals representing various industries. This committee convenes twice a year, bringing together designated faculty members, alumni, and industry experts. Their primary objective is to provide guidance to the department on matters related to education, curriculum enhancement, and industry-specific needs. Through collaborative discussions, this forum aims to ensure that the department's academic offerings remain aligned with the evolving demands of the industrial landscape.







Corporate Advisory Committee (CAC)

Skilled HR
(Internships+Employment)

Capacity Building/ Trainings

Consultancies

Case Studies

Guest Speakers

BAHRIA SCHOOL OF Engineering & Applied Sciences

BAHRIA UNIVERSITY
CAREER
RESEARCH & INNOVATION
HEALTH SCIENCES
AI
STUDENT
QUALITY EDUCATION
FUTURE
CYBER
NAVY
MARITIME
LAW
STATE OF THE ART FACILITIES
VISION
LINKAGES WITH INTERNATIONAL UNIVERSITIES
INDUSTRY
GROWTH
SUCCESS

Contact

Bahria School of Engineering and Applied Sciences
Bahria University Karachi Campus
13-National Stadium Road, Karachi
Phone: 021-99200042 EXT: 424
https://www.bahria.edu.pk/bukc

KARACHI CAMPUS
13, National Stadium Road, Karachi
BUKC +92 21 992 40002-6
NCMPR & IPP +92 21 111 111 028

INSTITUTE OF PROFESSIONAL PSYCHOLOGY
NATIONAL CENTER FOR MARITAME POLICY RESEARCH

HEALTH SCIENCES KARACHI
Adjacent to PNS Shifa, DHA, Karachi
+92 21 353 19491-9



Conceived By
Marketing Directorate (BUHO)

Patron
Saba Khan
Director Marketing

Creative Head & Project Lead
Maham Malik
Publications Officer

Illustrative Storyteller
Juwon Heo
Graphic Designer