



الجامعة الهاشمية
The Hashemite University



**Excellence in Research,
Teaching and Enterpartnership**



Research Centers @ Hashemite University



Education for a Better Future

The Hashemite University,
Zarqa, Jordan

+962-5-3903333

www.hu.edu.jo





الجامعة الهاشمية
The Hashemite University

OVERVIEW

Founded in 1991 by a Royal Decree, The Hashemite University (HU) is a respected government institution located 25 km northeast of Amman. It is strategically positioned close to a major international highway and the country's largest free-trade zone ([Google Earth Map](#))

In 1995, HU started with three academic colleges and 600 students. Over the last 28 years, HU has improved its academic and research capabilities. It now has 15 faculties offering 56 undergraduate and 42 graduate programs, with 230 well-equipped laboratories. To accommodate an expected increase in students, the University has expanded its infrastructure to house around 30,000 students. This has led to a noteworthy total of 95,000 graduates since its establishment.

VISION

A pioneer university regionally and internationally. The Hashemite University is oriented toward achieving an academic pioneering position and excellence in university teaching, scientific research, at both the national and regional levels, to serve society through its educational functions, and to participate in the advancement of knowledge

MISSION

The Hashemite University as a youthful and prominent higher education institution is committed to actively participating in achieving the goals of comprehensive national development by preparing loyal men and women who are not only technically competent in their professional fields, but also life-long learners who have breadth vision, loyalty to their nation, and a sense of civic and moral responsibility and devotion to the fundamental values of human life.

NURTURING EXCELLENCE IN RESEARCH AND INNOVATION

Hashemite University (HU), located at the heart of Jordan, stands as a symbol of sustainable innovation, scholarly excellence, and community commitment. Established with an unyielding dedication to the United Nations Sustainable Development Goals (UN SDGs), HU has embarked on a transformative journey that encompasses over 15 pioneering research centers, addressing a diverse range of challenges from renewable energy and biodiversity conservation to healthcare and technology. These centers, vibrant hubs of innovation, contribute significantly to local and global problem-solving, showing HU's strong commitment to making a constructive influence.

A Pioneer in Renewable Energy: HU leads the way in renewable energy with initiatives like the solar-powered Desalination Plant and the visionary Grid-Connected Project, ensuring energy independence and reducing CO2 emissions. Its commitment to sustainability extends to modern green building designs.

Preserving Biodiversity for Resilience: Within HU's campus, the National Seed Bank (NSB) safeguards over 2600 plant species crucial for agriculture, contributing to enhanced food security through resilient plant varieties amidst climate change challenges.

Global Recognition and Academic Excellence: With a faculty from esteemed institutions worldwide, HU garners recognition at both local and global levels. Accredited by esteemed bodies including ABET and FAIMER, its programs consistently rank high in global subject assessments.

Fostering Lifelong Learning and Research: HU prioritizes scientific innovation, offering state-of-the-art facilities and a conducive environment for groundbreaking work. Its focus on national priorities like food security and energy sustainability underscores its role as a research leader.

Empowering gender equality: HU's diverse campus of nearly 28,000 students fosters dynamic idea exchange. The commitment to gender equality is evident with 63% of students being female. This dedication resonates in HU's influential alumni network, exceeding 90,000 graduates, showcasing the institution's transformative impact across sectors.

Next are overviews of various research centers at Hashemite University.



OUR RESEARCH CENTERS



**Pharmacy Management & Pharmaceutical
Care Innovation Center**



**Center for Women's Studies in the
Community**



Renewable Energy Center



**Innovation and Entrepreneurial Projects
Center**



Risk Management Center



Jordan's National Seeds Bank



Water and Environment Center



**Built Environment and Structural Systems
Center**



HU Career Center



**Center for Studies Consulting and
Community Service**



PHARMACY MANAGEMENT & PHARMACEUTICAL CARE INNOVATION CENTER

ABOUT THE CENTER

The center bridges the gap between academic research and practical implementation in pharmaceutical care. It is a unique hub for specialized training and continuous development. The center fosters Knowledge Transfer Partnerships (KTP) between Hashemite University and global partners.



CURRENT ACTIVITIES / RESEARCH PROJECTS

The center has initiated a program to build capacity for personal and professional development. Distinguished as the sole center in Jordan to lead psychometric analysis. The center conducts research projects on pharmacy practice and medicines management.

PARTNER AND COLLABORATORS

The center collaborates with local and international partners, as Queen's University Belfast, and The British Pharmacological Society. It also partners with regional institutions such as Sharjah University and The Arab Pharmacists Union.

The center has a network of partnerships with Jordanian universities and organizations, including the Jordanian Royal Court, the Jordanian Prime Ministry, the Jordanian Food and Drug Administration, the Royal Medical Services, and the Jordanian Pharmacists Association.

POTENTIAL INTERNATIONAL COLLABORATIONS

The center supports training programs in capacity building, innovation, entrepreneurship, leadership, pharmaceutical care, and health promotion.

International Partners are encouraged to collaborate with the research projects in terms of peer review, evaluation of the results, and subsequent publication.



CENTER FOR WOMEN'S STUDIES IN THE COMMUNITY

ABOUT THE CENTER

CWSC is an evidence-based consulting and training center aims to enhance the role of girls and women in Jordan's social, political and economic spheres. CWSC has exemplary status due to proven engagement with academic and non-academic external stakeholders, supporting internal and external communities, and addressing real-world



problems and improving society. Over the span of 5 years the number of its direct beneficiaries reached over 6000; both male and female.

CURRENT ACTIVITIES / RESEARCH PROJECTS

CWSC is currently leading a gender sensitive project to institutionalize Iraqi and Jordanian support systems in entrepreneurship resources. CWSC is the sole women's center in Jordanian universities to focus entirely on women leadership and entrepreneurship. The center conducts research projects on different women economic empowerment subjects.

PARTNER AND COLLOBRATORS

CWSC has many collaborations with international, regional and local partners including Saarland University, UN Women, American University of Iraq (Sulaimani), Arab Women Organization, and many Jordanian Universities and local public, private and civil society institutions involved in women empowerment.

POTENTIAL INTERNATIONAL COLLABORATIONS

The center supports training programs in entrepreneurship, women leadership, and women studies. International Partners are encouraged to reach out for opportunities for long-term institutionalized cooperation.



RENEWABLE ENERGY CENTER

ABOUT THE CENTER

HU has made remarkable progress in achieving 100% energy independence through renewable energy resources, through the invaluable work of the Renewable Energy Center. The Center has successfully integrated PV systems, utilizing solar energy for clean electricity. They have also modernized existing buildings by greatly improving energy efficiency.



The Center's helped HU to move towards energy independence, empowering sustainable choices for a greener future on campus. This progress reflects the university's unwavering commitment to environmental stewardship.

COMPREHENSIVE SERVICES, CONSULTATION, AND TASKS

The Renewable Energy Center serves as a vital hub for various tasks and services, facilitating the university's commitment to sustainable practices.

Here are the key areas of focus:

- Maintaining the productivity of the university's solar energy systems.
- Energy Auditing
- Coordination of Training Courses, Seminars, and Workshops for students and specialists.
- Supporting scientific research in the field of renewable energy.
- Provide laboratory and consultancy services in energy impact assessment and auditing.

POTENTIAL INTERNATIONAL COLLABORATIONS

The Renewable Energy Center is actively seeking potential international collaborations in the fields of smart grid, hydrogen research, and renewable energy. By fostering partnerships, the center aims to exchange knowledge, conduct joint research, and provide training opportunities to drive innovation and advancements in sustainable energy technologies.



INNOVATION AND ENTREPRENEURIAL PROJECTS CENTER

ABOUT THE CENTER

The Innovation and Entrepreneurial Projects Center at The Hashemite University transforms innovative ideas into economic ventures and patents, fostering pioneering projects and strategic partnerships. It nurtures students' creativity, embeds innovation in the curriculum, and helps students establish businesses, positioning the university as an exporter of market-ready ideas



CURRENT ACTIVITIES / RESEARCH PROJECTS

We engage in diverse activities, research projects, and partnerships that drive creativity and entrepreneurship. We conduct workshops, mentor startups, and convert academic research into industry solutions. Our mission is to foster innovation, develop market-ready products, and inspire our students to become future leaders.

PARTNER AND COLLABORATORS

We partner with entities like Zain, creating an incubator for student startups, and Orange FabLab, providing access to digital fabrication tools. Alongside these, we collaborate with local companies via the university's MoUs across different faculties, thereby enriching our innovation ecosystem and students' practical experience.

POTENTIAL INTERNATIONAL COLLABORATIONS

The center actively exploring potential international collaborations to further enhance our innovative ecosystem. These partnerships would expand our global network, exposing our students and faculty to a diverse array of perspectives and practices in innovation and entrepreneurship. Such collaborations could include research exchanges, shared seminars and workshops, joint entrepreneurial ventures, and student exchange programs, all of which would contribute to a richer, more globalized learning environment.



RISK MANAGEMENT CENTER

ABOUT THE CENTER

The center review and evaluate various university measures in order to develop plans and procedures that help in protecting university's resources, assets, employees and students through managing risk related to university's administration, financial and technical matters. This includes resource planning, work disruption risks, and change in the surrounding environment from technical, economic and political point of view.



CURRENT ACTIVITIES

The Risk Management Center aims to develop a comprehensive risk management and work framework and models at the university

PARTNER AND COLLOBRATORS

The center collaborates with local and international partners, as National Center for Security and Crises management and Jordan Engineers Association and many Jordanian universities.

POTENTIAL INTERNATIONAL COLLABORATIONS

The center supports training programs in capacity building, innovation• and international scientific conferences that deals with the latest developments and tools in risk management. This is based on theoretical and practical scientific studies that aims at forming connections between researchers and decision-makers in various government institutions. And Inviting speakers with experience and knowledge, whether from inside or outside the Kingdom



JORDAN'S NATIONAL SEEDS BANK

ABOUT THE BANK

In the implementation of His Majesty King Abdullah's directives to enhance the Kingdom's agricultural sector, an agreement to establish a national seed bank was signed between Hashemite University and the National Agricultural Research Centre (NARC) at the Royal Court on Saturday.



The design and the construction phase of

the NSB was started on September. 2022 and hopefully finish in the year 2024.

The establishment of the bank aims to collect and preserve "a wealth of genetic resources" of wild plants and preserve genes in the short and long term.

CURRENT ACTIVITIES / RESEARCH PROJECTS

The establishment of the bank aims to collect and preserve "a wealth of genetic resources" of wild plants and preserve genes in the short and long term. The project also aims at developing research plans for reserving the genes through scientific methods, providing genetic material and information for various breeding programs, and exchanging information related to genetic resources with local and foreign gene banks.

PARTNER AND COLLABORATORS

The establishment of the bank aims to collect and preserve "a wealth of genetic resources" of wild plants and preserve genes in the short and long term. The project also aims at developing research plans for reserving the genes through scientific methods, providing genetic material and information for various breeding programs, and exchanging information related to genetic resources with local and foreign gene banks.

POTENTIAL INTERNATIONAL COLLABORATIONS

The National Seed Bank and the herbarium perform their tasks in partnership with many local and international partners taking into consideration the spirit and implications of the relevant international agreements such as the Convention on biological diversity and the international treaty on plant genetic resources for Food and Agriculture of FAO.



WATER AND ENVIRONMENT CENTER

ABOUT THE CENTER

The center's role revolves around employing and activating scientific research and enriching knowledge to find practical solutions to water and environmental issues. It is a distinguished reference locally and internationally for scientific research, consultations, community service, and international cooperation in the water and environment sectors.



CURRENT ACTIVITIES / RESEARCH PROJECTS

The center has initiated several international water and environmental projects such as Red Sea Net, Building Resilience through CircularArity, and the 12 River Basins Water Pollution Monitoring. The center hosted speakers series of invited scholars studying climate change, environmental economy, and water resources management. The center participated intensively in local and international workshops, conferences and environmental activities, creating a network of specialists across disciplines.

PARTNER AND COLLOBRATORS

The center collaborates with local and international partners such as the National Agriculture Research Center, Royal Scientific Society, Swedish University of Agricultural Sciences, University of California San Diego, University of Jaén, and many other academic and research institutions.

POTENTIAL INTERNATIONAL COLLABORATIONS

Local and international partners are encouraged to collaborate with WEC in water and environmental projects, mainly focusing on Resource Efficient and Cleaner Production (RECP), Eco-Innovation, Water-Energy-Food Nexus, Climate Change, Smart Agriculture, and Integrated Water Resources Management (IWRM).



BUILT ENVIRONMENT AND STRUCTURAL SYSTEMS CENTER

ABOUT THE CENTER

The Built Environment and Structural Systems Center was established with the aim of developing the structural engineering field and the educational process through applied experiments for structural systems and elements, conducting structural and industrial material testing, and providing related consultations.

The center also works to achieve the university's goals in higher education, scientific research, community service, and to find academic and research cooperation with national scientific institutions, and industrial companies.



CURRENT ACTIVITIES / RESEARCH PROJECTS

Graduate students in structural engineering and undergraduate engineering students are currently conducting their experimental research at the center. Current activities involve testing shear capacity of reinforced concrete with lightweight aggregate and steel fibers and punching shear of flat slabs. Undergraduate mechanical engineering students are testing composite materials with natural fibers.

POTENTIAL INTERNATIONAL COLLABORATIONS

With its high capabilities, the center supports international collaboration with other scientific and academic institutions. International research collaboration is encouraged in terms of conducting material and structural experiments, evaluating structural behavior, and writing scientific research papers.



THE HASHEMITE UNIVERSITY CAREER CENTER

ABOUT THE CENTER

The Hashemite University Career Center (HUCC) was established in 2019 in cooperation with BDC and with the support of the American Embassy in Amman. Its main goal is to provide career counseling services, support students in their career path, offer training and career rehabilitation programs, help students find job opportunities, and support their entrepreneurial activities. Over the past four years, HUCC has established



many successful partnerships with the public sector and various business sectors. These partnerships helped over two thousands students to explore their career options, develop employability and work skills (CV preparation, job search and interviewing skills) and identify experiential learning opportunities (internships, part time and volunteer works).

CURRENT ACTIVITIES

- Providing training for students to find job opportunities, create their own businesses, and enhance their concepts of entrepreneurship.
- Providing guidance would improve graduates' preparation on how to engage in the labor market.
- Building bridges of cooperation with the public and private sectors to train students and improve their professional potential in a way that increases students' ability to reach their future career path.
- Developing an important partnership between academia and the business sector to facilitate professional consultations at HU.

PARTNER AND COLLOBRATORS

HUCC has many collaborations with national, regional and international partners such as AlKaria Space, SkyTech, IKG, Aflatoun International, JOPACC, United States of America Embassy, Education For Employment (EFE), King Hussein Foundation, Tuned Applications, KPMG, UKAN, Business Development Center (BDC), We Visors Consultant for Business Development, PADOR, UKAN, Amman Stock Exchange and Central Bank of Jordan.

POTENTIAL INTERNATIONAL COLLABORATIONS

The center supports training programs in capacity building, entrepreneurship, leadership and employment. International Partners are encouraged to reach out for collaboration opportunities in training, employment and entrepreneurship programs.

✉ ph_innovation@hu.edu.jo

🌐 hcc.hu.edu.jo



CENTER FOR STUDIES, CONSULTING AND COMMUNITY SERVICE

ABOUT THE CENTER

The Center was established with the primary objective of advancing the development of both Jordan as a whole and the local community surrounding the university. It achieves this by offering a diverse range of services, including training programs, studies, consultations,



technical and laboratory examinations, and social service activities. By catering to the specific needs of various stakeholders, the Center actively contributes to the progress and prosperity of the region it serves.

CURRENT ACTIVITIES / RESEARCH PROJECTS

- Holding high-quality training programs
- Conducting studies and providing consultations for the public and private sectors.
- Conducting tests and technical checks in various fields.
- Monitors and oversees social service activities.

PARTNER AND COLLOBRATORS

- Seeking to sign many agreements with civil society organizations and external training and consulting companies to cooperate in implementing consultations, studies, and training programs in all fields.
- Developing the knowledge and skills of participants in the training programs held by the center in a manner that reflects positively on the level of their performance to enable them to contribute to the development of society and increase production and effectiveness in the fields of management, finance, technical, information technology and others.
- Contributing to the designing and implementation of training programs and development of training plans at the local and regional level.