



中巴现代农业产教协同创新发展联盟
CHINA-PAKISTAN ALLIANCE FOR MODERN AGRICULTURE AND
INDUSTRY-EDUCATION INTEGRATION



潍坊工程职业学院
Weifang Engineering Vocational College



Prime Minister's
Youth Programme

OFFICIAL REPORT

High-Level Pakistani Delegation Visit to China Strengthening
Pakistan-China Cooperation in Agriculture Related TVET Cooperation
and Industry-Education Integration

SEPTEMBER 27-30, 2025

中巴情深

China Pakistan Deep Love



Services for the **FUTURE**



浩彦国际
UNI International

ITMC 中教畅享

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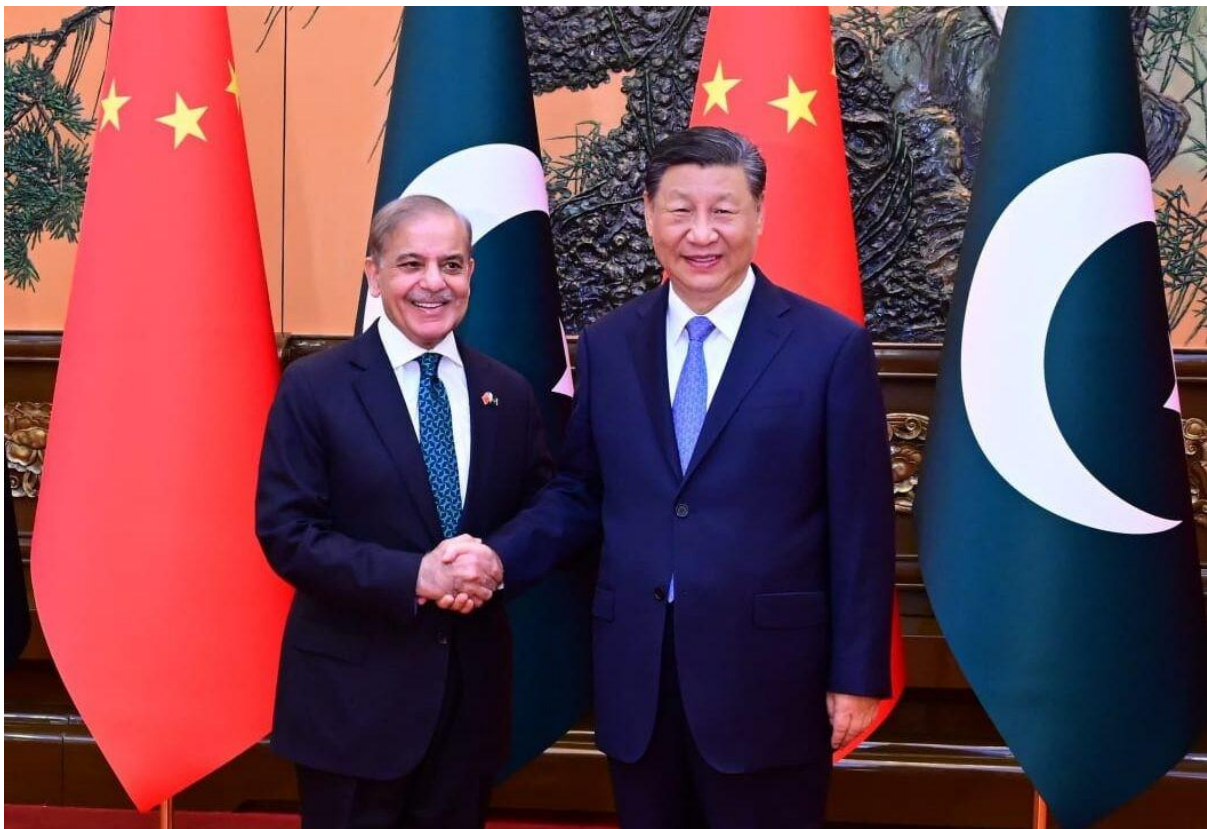
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1.0 Executive Summary

From September 27 to 30, 2025, a high-level Pakistani delegation embarked on a strategic diplomatic and educational mission to Shandong Province, China. This visit represented a significant follow-up initiative by Punjab Government institutions under the newly launched second phase of the China-Pakistan Economic Corridor (CPEC). It directly implemented the commitment made by both governments to commence CPEC's second phase, which was advanced by the momentum from the Prime Minister's participation in the August 2025 SCO summit.



The timing of this delegation is particularly significant as it represents one of the first substantial engagements between Pakistani and Chinese institutions following the high-level political commitment to broaden CPEC collaboration beyond infrastructure into agriculture, vocational education, and technological innovation. The delegation, comprising senior government officials from Punjab's Skills Development & Entrepreneurship Department and Technical Education and Vocational Training Authority (TEVTA), distinguished academic leaders from prominent Pakistani universities, and key private sector representatives from UNI

Services International Private Limited and ITMC Technology Co. Ltd, specifically focused on operationalizing the agreements reached at the highest levels of both governments.

Based on sister relationship between Punjab Province and Shandong Province and under the leadership of Weifang Municipal Government, the four-day programs, sponsored by ITMC Technology Co. Ltd (China), organized by Weifang Engineering Vocational College and supported by Pakistan Federal & Provincial High-level Government Authorities, featured an intensive schedule of high-level meetings, technical site visits, institutional inspections, and formal signing ceremonies that collectively established a robust framework for implementing CPEC's second-phase objectives in human capital development and agricultural modernization. The visit culminated in the signing of eleven landmark agreements covering diverse sectors including digital education, agricultural technology, institutional collaboration, and industry-academia partnerships. A particularly significant outcome was the formal establishment of the China-Pakistan Alliance for Modern Agriculture and Industry-Education Integration, which will serve as a permanent platform for sustained collaboration, knowledge exchange, and joint implementation of development initiatives that directly support CPEC's expanded focus areas.



The delegation engaged extensively with Chinese counterparts from Weifang Municipal Government, multiple vocational colleges, and leading agricultural enterprises, fostering mutual understanding and creating concrete pathways for technology transfer and capacity building. These engagements specifically addressed the implementation mechanisms required to translate the high-level political commitments made during the Prime Minister's August visit into actionable programs that will substantially contribute to Pakistan's socio-economic development objectives under CPEC's second phase, particularly in the priority areas of youth skills development, agricultural modernization, and industry-education integration.

The high-level conference and the newly formed alliance received high-level endorsement from Pakistan's Federal Government as well, as evidenced by the supportive address from the **Chairman of the Prime Minister's Youth Programme (PMYP)**. In his speech, he championed the alliance as a vital initiative for empowering Pakistani youth with modern agricultural skills, thereby directly linking this cooperation to national youth development and employment goals. This was operationalized through the signing of **11 (eleven) cooperation agreements**. The tour emphasized the Chinese model of industry-education integration, showcasing advanced facilities in intelligent manufacturing, drone technology, smart agriculture, and floriculture, paving the way for significant skill development and knowledge transfer to Pakistani institutions.



2.0 Delegation Composition and Profiles

2.1 Pakistani Delegation Members

2.1.1 Government Representatives:

Mr. Khan Muhammad, the Science Counselor at the Embassy of Pakistan in China, played a pivotal diplomatic role throughout the visit, leveraging his extensive experience in international scientific cooperation to facilitate meaningful dialogue between the two nations. His deep understanding of both Pakistani development priorities and Chinese technological capabilities enabled him to effectively bridge cultural and operational differences, ensuring that discussions remained focused on achievable outcomes with significant impact potential.



Mr. Nadir Chattha, a distinguished senior official, serves as the **Secretary of Punjab's Skills Development & Entrepreneurship Department**, The Government of Punjab Province, Pakistan. In this capacity, he is a key architect of the province's human resource development strategy, bringing substantial policy expertise and governmental authority to the proceedings. His involvement provided crucial insights into Punjab's skills development framework and its strategic alignment with both national and provincial economic and development goals.



2.1.2 Higher Education Institutions:

Prof. Dr. Muhammad Kamran, Vice Chancellor of Islamia University of Bahawalpur (IUB), whose distinguished career in higher education administration and research leadership brought academic rigor and long-term strategic perspective to the collaboration discussions. His expertise in institutional capacity building and international academic partnerships proved instrumental in shaping the framework for sustainable university-level collaborations.



Dr. Tanveer Ahmad, Chairman of the Department of Horticulture at Muhammad Nawaz Sharif University of Agriculture Multan (MNSUAM), contributed specialized knowledge in agricultural sciences, particularly in floriculture and crop production systems, enabling detailed technical discussions about research collaboration and curriculum development in agricultural education.



2.1.3 Technical Education Authorities:

Mr. Akhtar Abbas, Senior Director General of Punjab Technical Education and Vocational Training Authority (TEVTA), contributed invaluable operational knowledge regarding the practical implementation of vocational training programs across Punjab's extensive network of technical institutions. His hands-on experience with curriculum development, faculty training, and industry linkage programs informed many of the technical discussions during site visits and working sessions.



Mr. Ali Sufyan, Director Service Center of Punjab Technical Education and Vocational Training Authority (TEVTA), provided granular understanding of service delivery mechanisms and operational coordination requirements, ensuring that proposed collaborations considered ground-level implementation challenges and opportunities within Pakistan's existing technical education infrastructure.



2.2.1 Government Officials:

Mr. Di Bo, Vice Mayor of Weifang Municipal People's Government, demonstrated strong political commitment to the collaboration through his active participation in key meetings and his advocacy for municipal support mechanisms. His understanding of local economic development priorities and educational reform initiatives enabled him to propose concrete measures for facilitating the proposed partnerships.

Mr. Feng Xiuhong, Head of the Industry and Education Integration Research Institute at Weifang Municipal Bureau of Education, contributed valuable insights into policy frameworks for vocational education development and industry-academia collaboration, sharing China's extensive experience in designing and implementing successful industry-education integration models.

2.2.2 Educational Institutions:

Mr. Lv Yaoliang, Secretary of the Party Committee at Weifang Engineering Vocational College, provided institutional leadership throughout the engagement, showcasing his college's innovative approaches to vocational education and its established track record in international cooperation. His vision for expanding the college's global partnerships aligned well with Pakistan's objectives for technical education enhancement.

Mr. Liu Fuyu, Deputy Party Secretary and President of Shandong Vocational College of Science and Technology, shared his institution's expertise in technology-focused vocational training, highlighting successful models for industry collaboration and employment-oriented education that offered valuable learning opportunities for the Pakistani delegation.

2.2.3 Corporate Partners:

Mr. Wang Peng, Managing Director of ITMC Technology Co., Ltd., brought substantial technological expertise to the discussions, particularly in the domain of digital education solutions and vocational training innovation. His company's proven track record in developing and implementing educational technology solutions across multiple countries provided confidence in the technical feasibility of proposed digital initiatives, while his understanding of market dynamics and commercialization pathways helped shape practical implementation strategies for technology transfer components of the collaboration.



Mr. Max Ma, Founder & CEO of UNI Services International Private Limited, played a crucial role in facilitating throughout the visit, leveraging his extensive experience in international educational partnerships to ensure productive dialogue and practical outcomes. His organization's established networks in both China and Pakistan, combined with their expertise in cross-cultural project management, significantly enhanced the efficiency and effectiveness of the delegation's engagements.



Mr. Yasser Shakoor Chaudhary, Director of UNI Services International (Pvt) Ltd, provided critical strategic insight by identifying key gaps in Pakistan's TVET sector. His efforts were instrumental in facilitating the strategic partnerships between Chinese and Pakistani institutions that were central to this mission.



3.0 Pre-Visit Context and Strategic Framework

3.1 CPEC Phase II Overview

The China-Pakistan Economic Corridor has strategically transitioned into its second phase, marking a significant evolution from the initial focus on infrastructure development to a more comprehensive approach encompassing multiple dimensions of economic cooperation and human capital development. This new phase places particular emphasis on agricultural modernization and food security, recognizing the critical role of the agricultural sector in Pakistan's economy and its substantial potential for productivity enhancement through technological intervention. Simultaneously, youth development and technical skills training have emerged as priority areas, addressing Pakistan's demographic dividend and the urgent need to equip young people with market-relevant skills for productive employment. The phase also prioritizes industrial cooperation and technology transfer, facilitating the adoption of advanced production techniques and management practices across various sectors of Pakistan's economy. Furthermore, educational reform and institutional capacity building constitute fundamental components of this phase, acknowledging that sustainable development requires strong institutions and quality education systems capable of driving innovation and adapting to changing economic demands.

3.2 Bilateral Education Cooperation History

Previous collaborations between Pakistan and China in the education sector have typically been characterized by individual institutional partnerships that, while valuable, often operated in isolation without systematic coordination or scaling mechanisms. These earlier initiatives, though producing positive outcomes in specific contexts, highlighted the need for a more comprehensive approach to TVET development that could address systemic challenges and create sustainable impact at scale. The current collaboration framework seeks to build upon these earlier experiences while introducing more structured mechanisms for coordination, quality assurance, and impact assessment. This new approach aligns strategically with Pakistan's short- & long-term goals, which emphasizes human capital development, knowledge economy advancement, and modernized agriculture, while simultaneously complementing China's Education Modernization 2035 objectives focused on international education cooperation, vocational education enhancement, and educational technology innovation. The

timing of this enhanced collaboration is particularly opportune, as both countries recognize the increasing importance of international educational partnerships in addressing global challenges and leveraging comparative advantages for mutual benefit.

3.3 Role of Facilitating Organizations

3.3.1 UNI Services International Private Limited:

Since its establishment in 2023, UNI Services International Private Limited has developed specialized expertise in facilitating international educational partnerships, with a particular focus on creating sustainable linkages between educational institutions, industry stakeholders, and government agencies across different national contexts. The organization's core competencies encompass comprehensive cross-cultural exchange program management, involving careful design of immersion experiences, cultural orientation sessions, and ongoing support mechanisms for participants navigating unfamiliar educational environments. Additionally, UNI has developed significant capability in vocational training curriculum development, specializing in adapting international best practices to local contexts while maintaining quality standards and relevance to market needs. Their strategic consultancy services extend to partnership structuring, project design, implementation planning, and monitoring frameworks that ensure accountability and continuous improvement. Through various initiatives, UNI has facilitated Pakistani students in technical skills aligned with emerging industry requirements, while simultaneously establishing robust industry-academia linkages across five major economic sectors, demonstrating their ability to create practical pathways between education and employment.

3.3.2 ITMC Technology Co., Ltd.:

ITMC TECHNOLOGY CO LTD (ITMC) (中教畅享科技股份有限公司) (<http://en.itmc.cn/>) ITMC Technology Co. Ltd. (ITMC) was registered in China in 2007 being a technology service provider specializing in digital talent development, which adheres to the purpose of "serving schools, empowering businesses, and cultivating talents" with a commitment to improving the efficiency and effectiveness of teaching and learning, enhancing the reliability and validity of skills assessment through an "All in AI" approach. ITMC focuses on areas such as e-commerce, digital marketing, financial accounting, digital media, information technology, and artificial intelligence, providing teaching products and solutions for schools, skills assessment services

for corporate talent development, and training evaluation services for individual career development.

In China, ITMC is authorized by China Ministry of Education as one of 1+X certificate pilot enterprises (Special Note: X means specialized area short course training program). Moreover, ITMC is authorized by China Ministry of Human Resources and Social Security (MOHRSS) for social training evaluation organization and skills qualification level certification.

Currently ITMC serves more than 4000 Chinese leading vocational and technical colleges in China. ITMC has 12 subsidiaries, 20 branch offices, 2 R&D Centers, 1- Teacher Development Center, 1- Vocational Colleges Training School and & 7 Social Training and evaluation organizations in P.R. China. ITMC also have 11 National Patents and 271 software copy writes.

Our commitment is to not just educate but to transform TVET landscape, enabling Pakistani youth to make significant strides on the global stage. UNI International is more than an organization; it's a movement to empower, enlighten, and lead the charge in creating a skilled Pakistani workforce that is ready to meet the challenges of tomorrow's economy.

4.0 Detailed Chronological Account of Visit Activities

4.1 September 27, 2025: Arrival and Welcome Events

4.1.1 Welcome Dinner Hosted by Weifang Education Bureau

The welcome dinner, held at the Weifang city, served as both a ceremonial commencement of the visit and an important opportunity for initial relationship building between the Pakistani delegation and their Chinese hosts. Mr. Feng Xiuhong, Head of the Industry and Education Integration Research Institute of Weifang Municipal Bureau of Education, as host, set a collaborative tone for the ensuing discussions through his opening remarks, which thoughtfully emphasized the historical depth and contemporary significance of Pakistan-China friendship while drawing connections to the specific cooperation areas under consideration. The evening's discussions explored potential collaboration areas in TVET digitalization, with particular attention to identifying complementarities between Pakistani needs and Chinese capabilities.

4.2 September 28, 2025: Technical Visits and Site Inspections

4.2.1 ITMC Technology Co., Ltd. R&D Base Visit



The delegation's visit to ITMC Technology Co., Ltd.'s Research and Development Base in the Weifang High-Tech Industrial Development Zone provided an intensive immersion into the

company's innovative approaches to educational technology. During the comprehensive three-hour tour, delegates observed firsthand the application of digital twin technology for vocational training, which creates virtual replicas of physical environments and equipment to enable realistic skills practice in risk-free settings. The demonstrations included AI-powered learning management systems that adapt content delivery based on individual learner progress and engagement patterns, potentially offering more personalized and effective learning experiences. Virtual reality simulation platforms showcased the potential for immersive skills training in various technical fields, allowing trainees to practice complex procedures repeatedly without material costs or safety concerns. Cloud-based curriculum delivery systems demonstrated approaches for making quality educational resources accessible across geographical and institutional boundaries, addressing challenges of resource constraints in remote or under-resourced institutions. The specific solutions presented encompassed smart classroom systems featuring interactive digital whiteboards that facilitate collaborative learning, real-time student assessment tools that provide immediate feedback to both learners and instructors, and automated attendance and performance tracking systems that reduce administrative burdens while generating valuable data for educational management. The vocational training simulators on display included advanced manufacturing equipment operation interfaces, agricultural machinery handling simulations that teach proper technique without equipment costs or safety risks, and food safety inspection virtual environments that create realistic scenarios for developing inspection competencies. The digital curriculum resources exhibition highlighted 3D interactive learning materials that enhance understanding of complex concepts through visualization and manipulation, multi-language support capabilities that make resources accessible across linguistic contexts, and mobile learning applications that extend learning opportunities beyond traditional classroom settings.



Pictures at Shandong Branch of ITMC Technology Co. Ltd.

R&D Center



4.2.2 Weifang Vocational College Smart Seedling Center

Shangnong Zhitianian Intelligent Plant Factory

The visit began with a formal introduction by the management team inside the main exhibition and demonstration hall. Here, statistical panels, multimedia displays, and a central IoT monitoring dashboard were presented.

The team explained that the Shangnong Zhitianian Intelligent Plant Factory represents a new generation of agricultural production characterized by high efficiency, energy conservation, environmental protection, and safety. The facility integrates advanced process technologies with a stable environmental control system, enabling year-round cultivation of leafy vegetables such as lettuce, arugula, red leaf lettuce, and kale.

Key features highlighted included:

- Precise regulation of temperature, humidity, CO₂, lighting, and nutrient solutions.
- Full modular design and automated production cycle from sowing to harvesting.
- Use of IoT, big data, and AI systems for intelligent farm management.
- Significant advantages over traditional farming in reducing carbon emissions, conserving water, and improving land efficiency.

The briefing also introduced the enterprise behind the facility, Weifang Shangnong Zhitianian Technology Co., Ltd. (est. 2022). The company spans 1,075.8 mu (~71.7 ha) with 66,000 m² of built facilities, organized into three divisions:

1. **Agricultural Research** – cultivation, intelligent development, high-tech harvesting.
2. **Secondary Processing** – functional food processing with OEM capacity.
3. **Tertiary Industry Integration** – full-chain alignment from research to commercialization.

The enterprise also serves as a Research and Practice Education Base for local school students.





The Smart Seedling Center linked with Weifang Vocational College represents a sophisticated integration of agricultural production with educational programming, serving both as a commercial-scale production facility and a living laboratory for students. The facility spans an impressive 20,000 square meters and achieves an annual production capacity of 10 million seedlings through highly automated processes that reach 85% automation levels, significantly reducing labor requirements while improving consistency and quality. The technology showcase featured AI monitoring systems that employ computer vision and sensor networks to track real-time growth parameters, machine learning algorithms for disease prediction and prevention, and automated nutrient adjustment mechanisms that optimize plant health based on continuous monitoring. The hydroponic systems demonstrated remarkable water efficiency, achieving 90% reduction in water usage compared to traditional cultivation methods, while implementing closed-loop nutrient recycling that minimizes waste and environmental impact. The multi-layer vertical farming capabilities showcased innovative approaches to maximizing production within limited footprints, particularly relevant for urban and peri-urban agricultural contexts. The robotic operations included automated seeding and transplantation systems that handle delicate seedlings with precision, AI-based quality inspection that identifies and addresses issues at early stages, and packaging and logistics automation that maintains product quality through the supply chain. This integration of advanced agricultural technologies with

educational programming provides students with hands-on experience using cutting-edge production systems, preparing them for careers in modern agricultural enterprises that increasingly rely on technology-intensive approaches.

On-Site Guided Walkthrough

Demonstration & Dashboard Hall

The visit started in a large hall where digital dashboards and demonstration material were displayed. The IoT-enabled control system presented real-time monitoring of environmental parameters such as temperature, humidity, CO₂ levels, and nutrient flows. Data visualization screens illustrated how AI algorithms optimize irrigation, fertigation, and disease prevention measures.

Tunnel Farming Demonstrations

Next, the group observed tunnel farming units, where vegetables were cultivated under controlled conditions. These tunnels demonstrated resource-efficient cultivation methods, with fertigation systems directly linked to the IoT dashboard for automated nutrient delivery and irrigation.

Training School Facilities

The delegation was then guided to a section dedicated to practical training. Here, young trainees and service providers receive hands-on instruction in controlled environmental agriculture. The space functioned as a technical school within the factory, designed to train future professionals in smart agriculture.

Controlled Agriculture Nursery Rooms

The delegation was taken to nursery rooms designed for early-stage plant growth. These were equipped with LED spectrum-adjustable lighting, environmental sensors, and climate control systems. The controlled atmosphere ensures uniform seedling development independent of external weather or seasonal variations.

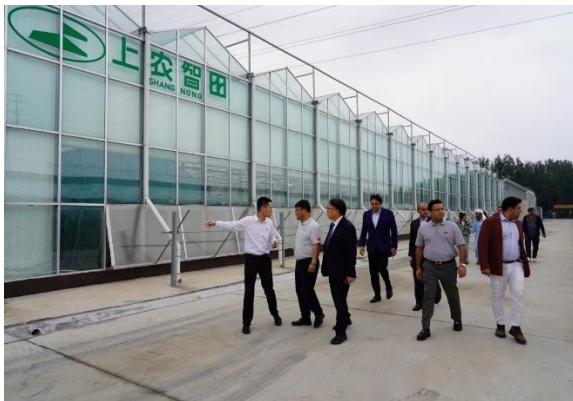
Vertical Farming & LED Towers

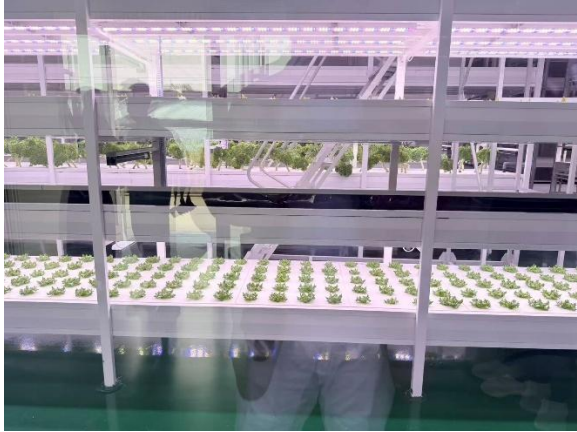
In adjoining sections, multi-tier vertical towers illuminated with LED lights were demonstrated. These structures showcased space-efficient farming where plant growth is

accelerated under optimized light spectra, offering high-density production within limited footprints.

Greenhouse Facilities

The final stage of the tour covered advanced greenhouse infrastructure, featuring automated skylight control, irrigation, and fertigation systems. These were integrated with the IoT platform for real-time monitoring and adaptive control, ensuring precise and sustainable cultivation.







Vertical Farming / Advanced Agriculture Nurseries



Farmers and Students Training Area

4.2.3 Shandong Vocational College of Science and Technology

Established in 1958, Shandong Vocational College of Science and Technology has evolved into a comprehensive institution serving over 15,000 students through 68 technical programs that address diverse industry needs. The delegation's facility inspections included the Advanced Manufacturing Center, which features Industry 4.0 compliant production lines that integrate cyber-physical systems, data analytics, and automation; robotics and automation laboratories equipped with industrial-grade equipment for practical skills development; and 3D printing and prototyping facilities that support innovation and product development activities. The Digital Innovation Hub showcased AI and big data analytics labs where students work with real-world datasets to develop analytical competencies; Internet of Things application centers that demonstrate connected systems across various domains; and cybersecurity training environments that prepare students for protecting digital infrastructure in an increasingly connected world. The Student Innovation Incubation Base provides comprehensive startup support services including mentorship, funding access, and business development guidance; industry mentorship programs that connect students with experienced professionals; and intellectual property guidance that helps students protect and commercialize their innovations. This ecosystem approach to technical education, which integrates academic learning with practical application and innovation support, offers valuable insights for enhancing the employability and entrepreneurial capabilities of TVET graduates in Pakistan.

The delegation was warmly received by Mr. Liu Fuyu, Deputy Party Secretary and President of Shandong Vocational College of Science and Technology. In his opening remarks, the President highlighted the college's longstanding commitment to integrating manufacturing, education, research, and training under one comprehensive system. He emphasized that the institution's core strength lies in school–enterprise collaboration, ensuring that students are trained in direct alignment with evolving industrial workforce needs.

The administration introduced the delegation to the college's diverse portfolio of specialized programs, each carefully designed to reflect China's national industrial priorities and global market trends.

Key Focus Areas

- **Mechanical Manufacturing & Automation** nationally recognized pilot program jointly approved by the Ministry of Education and the Shandong Provincial Department of Education.
- **Intelligent Manufacturing** – Incorporating digital factory systems, industrial internet applications, and drone-based workflows, offering students practice in real-world smart factory environments.

- **Textiles & Garment Technology** – Covering both the history of dyeing and printing as well as advanced smart garment manufacturing and intelligent logistics systems.
- **Fashion Design & Display** – Providing hands-on training in visual merchandising, branding, and modern fashion display systems.
- **Electronic Information Engineering** – Producing graduates who are now employed at leading firms such as Huawei, contributing to robotics, AGV technologies, and wider digital innovations.
- **Civil Engineering & Sustainable Infrastructure** – Demonstrated through projects such as Qing Lian Zhuang, a multifunctional pile foundation system that integrates geothermal energy applications.
- **Cultural & Traditional Crafts** – Preserving heritage weaving, dyeing, and textile skills, while adapting them for contemporary markets and applications.
- **Sino-German Intelligent Manufacturing Institute** – A flagship cooperation centre with German partners, promoting dual education pathways, small-class teaching, specialized curricula, and faculty–student exchanges.



Shandong Provincial Intelligent Manufacturing Public Training Base

After the introductory session, the delegation was taken on a guided tour of the **labs and workshops at the Shandong Provincial Intelligent Manufacturing Public Training Base**, which serves as a provincial-level hub for advanced technical training and industry–academia integration. The visit included the following facilities:

1- Five-Axis Machine Tool Training Room

A high-precision laboratory where students and trainees gain hands-on experience with advanced CNC five-axis machining systems, widely applied in aerospace, automotive, and mold industries. The facility provides real-time training in programming, simulation, and operation of complex machine tools.

2- Shandong Songhui Intelligent Technology Co., Ltd. Pilot Workshop

This workshop demonstrated cutting-edge machine vision intelligent inspection systems developed in collaboration with industry partners. The delegation observed how automated optical inspection equipment is applied for defect detection, quality assurance, and process optimization in high-end manufacturing.

3- ABB Robotics & Intelligent Manufacturing Training Center

A collaborative platform with ABB, this center equips learners with practical skills in robotics, automation, and intelligent assembly lines. Demonstrations showcased applications of robotic arms, collaborative robots (cobots), and integrated digital systems for modern industrial workflows.

4- FAW-Volkswagen Industrial Academy – Automotive Training Hub

Established under a school–enterprise cooperation model, this hub replicates a modern automotive production environment. Training covers vehicle assembly, diagnostics, maintenance, and intelligent automotive technologies, ensuring that students graduate with skills directly aligned with global automotive industry standards.

5- Unmanned Aerial Vehicle (UAV) Training Room

A specialized facility dedicated to the design, operation, and application of drones in industrial and commercial contexts. The room is equipped with flight simulators, drone assembly modules, and testing zones, allowing students to practice aerial navigation, surveying, mapping, and logistics applications. Training also emphasizes emerging industrial uses of UAVs, including smart agriculture, infrastructure inspection, and emergency response.

Shandong Province Smart Factory and Associated Facilities

The delegation’s visit to the Model Smart Factory for Intelligent Garment Manufacturing offered an in-depth look into the future of textile and apparel production. This facility exemplifies the transformation of traditional garment-making into a digitally integrated and automated ecosystem. It combines full-process automation, intelligent logistics, and AI-driven quality assurance, powered through IoT and advanced robotics. Unlike conventional factories, where operations are segmented, the smart factory ensures seamless connectivity across the supply chain, from fabric input to finished apparel, reducing waste, improving efficiency, and guaranteeing consistent quality.

Beyond its production capacity, the factory also functions as a hands-on teaching and training platform, where vocational students and young professionals directly engage with industrial-grade equipment and real-time data systems. This dual role allows it to serve as both a production base for textile products and an applied learning center, bridging the gap between academic theory and workplace realities.

The Specialized Industrial College for Intelligent Apparel Manufacturing further builds on this foundation. Operated as a flagship hub for teaching and research, the college is dedicated to advancing smart apparel technologies, automation-driven production models, and data-



centered industrial practices. In collaboration with industry, it ensures that graduates are not only familiar with cutting-edge garment production systems but also prepared for leadership roles in a global textile economy where sustainability, precision, and customization are increasingly critical.

A practical highlight of the facility is its ongoing production of school uniforms and other standardized textile products. By supplying uniforms to over 200 educational institutions, the center demonstrates its scalable production capacity, strong market linkages, and responsiveness to client needs. An on-site product display outlet showcases the diversity of its textile outputs, ranging from functional apparel to culturally inspired designs, reinforcing its role as both a commercial and educational enterprise.

In addition, the Nichang Costume Culture Museum serves as a complementary feature of the visit. Dedicated to the preservation and presentation of China’s traditional textile and costume heritage, the museum curates centuries-old practices such as weaving, dyeing, embroidery, and tailoring techniques. Positioned alongside the high-tech production facility, the museum offers a unique educational perspective—illustrating how cultural heritage in textiles can inform and inspire contemporary smart garment manufacturing. By merging the legacies of traditional costume craftsmanship with future-oriented industrial practices, the entire setup presents a holistic approach to textile education, production, and cultural continuity.



High Precision Lab



High Precision Lab

UGV Lab



High Precision Lab

Robotics Lab



FAW-VW Automotive Lab



FAW-VW Automotive Lab



Smart Classroom



Smart Classroom



UAV Lab



PLC Automation Lab



Cultural Heritage Textile Lab



Intelligent Apparel Manufacturing



Intelligent Apparel Manufacturing



Apparel Product Display Studio



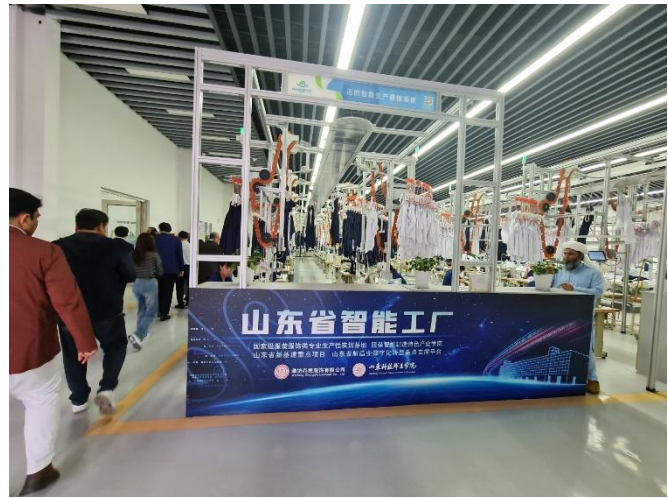
Textile Cultural Heritage



Textile R &D / Incubation Studio



Textile R &D / Incubation Studio



Apparel Model Factory



Apparel Model Factory



Textile Museum

School-Enterprise Collaborations

A defining feature of the Shandong vocational education model is its dual main body (school-enterprise) system, which ensures deeply integrated talent development. Highlights include:

Shandong Vocational College of Science & Technology × GoerTek Inc.

This strategic partnership merges Shanke's academic strength in applied sciences with GoerTek's technological leadership in acoustics, optics, microelectronics, and smart devices. Together, they've established joint labs and innovation centers focused on VR/AR, AI, and advanced manufacturing. Faculty and students benefit from exchange programs, while GoerTek invests in infrastructure and co-develops national vocational standards—creating a seamless bridge from enrollment to employment.





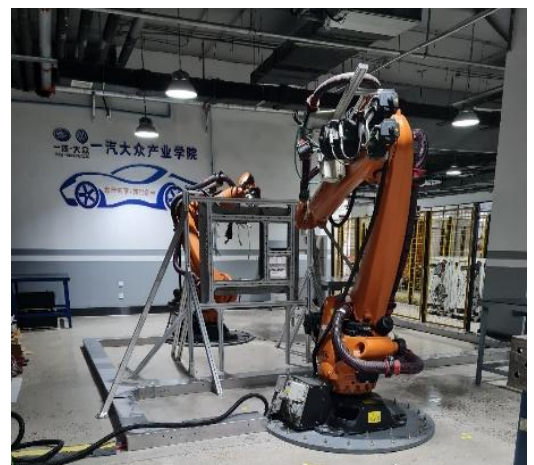
Shandong Songhui Intelligent Technology Co., Ltd. – Pilot Workshop

This pilot workshop showcases advanced machine vision systems for intelligent inspection. Developed in partnership with industry, it trains students in defect detection, quality assurance, and process optimization using automated optical equipment. The collaboration emphasizes precision manufacturing and equips learners with skills in high-end industrial diagnostics, making them valuable assets in smart production environments.



FAW-Volkswagen Industrial Academy – Automotive Training Hub

This hub replicates a full-scale automotive production environment under a school–enterprise model. Students receive hands-on training in vehicle assembly, diagnostics, and intelligent automotive technologies. The curriculum is aligned with global automotive standards, and the partnership ensures that learners graduate with industry-ready skills, capable of contributing to both domestic and international automotive sectors



SIMATIC Advanced Automation Training Centre - Siemens Ltd, China Digital Ind.

This hub replicates automotive production environment under a school–enterprise model. Students receive hands-on training in vehicle assembly, diagnostics, and intelligent automotive technologies. The curriculum is aligned with global automotive standards, and the partnership ensures that learners graduate with industry-ready skills, capable of contributing to both domestic and international automotive sectors



Meeting held between all stakeholders after comprehensive visit



4.2.4 Welcome Dinner Hosted by Weifang Engineering Vocational College

Welcome dinner was hosted by Mr. Lv Yaoliang, Secretary of Party Committee of Weifang Engineering Vocational College followed by China-Pakistan Cultural Exchange Program. Cultural exchange performances showcasing Shandong's rich heritage provided not only entertainment but also meaningful context for understanding the cultural environment in which the Chinese educational approaches had developed. The bilateral discussions that occurred throughout the evening began the process of establishing personal relationships between key stakeholders, creating a foundation of trust that would facilitate more substantive negotiations in the following days. The key outcomes from this initial engagement included developing a mutual understanding of cooperation priorities across the various participating institutions, establishing interpersonal connections that would prove valuable during more technical discussions, and reaching preliminary agreement on the importance of formalizing partnerships through structured agreements that would ensure accountability and sustainability.

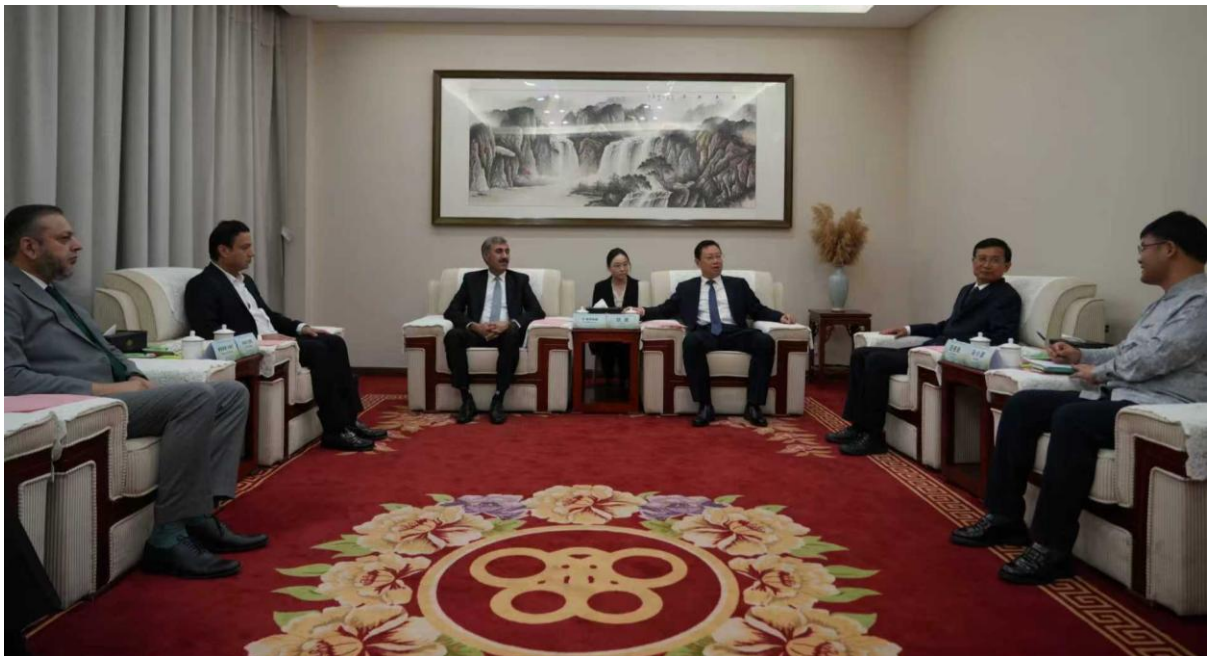




4.3 September 29, 2025: Conference and Agreement Signings

4.3.1 High-Level Meeting with Weifang Vice Mayor

Mr. Di Bo, Vice Mayor of Weifang Municipal People's Government expressed strong support for successful collaboration between Pakistani and Chinese institutions. The main agenda items included discussing policy support mechanisms for international cooperation, identifying mutual resources that could be allocated to joint projects, clarifying regulatory frameworks for educational partnerships, and establishing long-term sustainability mechanisms. The government commitments made during this meeting included dedicated efforts for joint education programs that address shared challenges, streamlined approval processes for collaborative initiatives and comprehensive municipal support for related development that might be required for implementing agreed programs.





4.3.2 China-Pakistan Conference on Collaborative Innovation in Modern Agriculture and Industry-Education Integration Opening Session



The opening session of the China-Pakistan Conference on Collaborative Innovation in Modern Agriculture and Industry-Education Integration brought together over 200 representatives from both countries at the Qingzhou Xiankelai International Hotel, creating a critical mass of expertise and institutional representation. The keynote addresses set a strategic direction for the collaboration, with Mr. Khan Muhammad from the Pakistan Embassy emphasizing the historical ties between the two nations while articulating a clear vision for future potential based on complementarity of needs and capabilities. His speech highlighted the importance of scientific and technological cooperation as drivers of economic development and social progress, while expressing strong commitment to youth development through education that equips young people with relevant skills for productive employment. Mr. Nadir Chattha from the Punjab Government delivered a special message from Chief Minister Punjab that underscored the political importance attached to the collaboration at the highest levels of provincial leadership. His address outlined the policy framework for skills development in Punjab, connecting it to broader economic development objectives, and presented a concrete implementation roadmap for collaborative projects that specified roles, responsibilities, and timelines. Mr. Di Bo, Weifang Vice Mayor, articulated the municipal support commitments in specific terms, announcing resource allocations for various initiative components and sharing a long-term partnership vision that extended beyond immediate projects to sustained cooperation across multiple domains. These high-level statements created a strong foundation

of political and administrative support for the technical discussions and agreement finalization that followed.



4.3.3 Detailed Analysis of 11 (Eleven) Signed Agreements

Agreement 1: Four-Party Overseas Training Base

This agreement brings together Weifang Engineering Vocational College from China, Punjab TEVTA from Pakistan, Huasheng Seed Group Co., Ltd. as an industry partner from China, and Pak German Polytechnic Institute for Agriculture Technology as an implementation institution from Pakistan. The specific components of this comprehensive agreement include detailed infrastructure development plans covering the construction of training facilities in Pakistan with specifications for different types of learning spaces, equipment procurement and installation schedules that prioritize essential technologies, and technology transfer mechanisms that ensure sustainable operation and maintenance. The curriculum development component involves joint program design that integrates Chinese technical expertise with Pakistani contextual requirements, teaching material development that adapts content for local relevance while maintaining international standards, and quality assurance frameworks that establish benchmarks for program delivery and outcomes. The faculty exchange provisions include regular rotation of experts between institutions to facilitate knowledge sharing, joint research projects that address practical challenges in agricultural education and production, and capacity building programs that enhance the pedagogical and technical competencies of teaching staff. This multi-party agreement creates a comprehensive ecosystem for skills development in agriculture, connecting educational institutions with industry partners to ensure relevance and employment outcomes.



Agreement 2: Center of Excellence for Food Safety and Inspection

This agreement establishes a specialized center focusing on food safety standards, inspection methodologies, and certification processes, addressing a critical area for agricultural exports and public health. The technical specifications cover laboratory setup requirements including space design, equipment lists, and safety protocols; equipment requirements specifying technical parameters, calibration standards, and maintenance schedules; certification and standardization processes aligned with international benchmarks while considering local regulatory frameworks; and research and development focus areas identified based on priority needs in Pakistan's food industry. The center will serve as a reference facility for testing, certification, and training, contributing to enhanced food safety systems across Pakistan's agricultural value chains while creating opportunities for specialized skills development in an area of growing importance for trade and public health.



Agreement 3: The Oasis Stella Workshop Project Cooperation Framework Agreement

The *Oasis Stella Workshop Project Cooperation Framework Agreement* marks a strategic tripartite collaboration between Ningxia Vocational and Technical College for Minorities (China), the Punjab Technical Education and Vocational Training Authority (P-TVETA, Pakistan), and Royal JW Buffalo Industry Company (Private) Limited. This agreement aims to foster cross-border vocational excellence by integrating Chinese technical education expertise, Pakistani institutional frameworks, and private sector innovation in livestock and agricultural industries. Through joint workshops, curriculum development, and capacity-building initiatives, the parties seek to promote sustainable skills transfer, industrial modernization, and regional cooperation aligned with international standards.



Agreement 4-6: International Education Resource Library Development

These agreements focus on creating comprehensive digital content for three-year diploma programs in specific technical fields, addressing the critical need for quality learning resources in TVET institutions. The scope encompasses digital content creation following pedagogical principles for technical education, multi-language support to ensure accessibility across different linguistic contexts in Pakistan, and regular content updates and revisions to maintain relevance with evolving technologies and industry practices. The resource libraries will include interactive multimedia elements, assessment tools, and instructor guides that enhance teaching effectiveness and learning outcomes. This systematic approach to learning resource development addresses a fundamental challenge in technical education quality and consistency, potentially benefiting large numbers of students across multiple institutions.



Agreement 7-8: Institutional Cooperation

These agreements between Weifang Engineering Vocational College and two Pakistani universities (IUB and MNSUAM) establish frameworks for comprehensive collaboration in higher education. The implementation framework includes student exchange programs that provide international exposure and cross-cultural learning experiences, joint degree offerings that combine strengths of both institutions, research collaboration that addresses shared challenges and opportunities, and faculty development programs that enhance academic capabilities through shared learning. These partnerships create pathways for academic mobility, knowledge exchange, and institutional capacity building that extend beyond technical skills to broader higher education improvement.



Agreement 9-10: Trilateral Cooperation

These agreements involving ITMC, UNI, and Pakistani universities establish an operational model that leverages the distinct strengths of each partner. ITMC provides technology solutions including platforms, content, and technical support; UNI coordinates implementation through project management, communication facilitation, and progress monitoring; while the universities contribute academic content, delivery capacity, and contextual adaptation. This tripartite approach creates a balanced partnership where technological innovation, implementation expertise, and academic excellence combine to create sustainable educational initiatives with potential for significant impact.



Agreement 11: Industry-College Cooperation

This agreement focuses on creating structured linkages between educational institutions and industry stakeholders, addressing the critical need for TVET to remain responsive to labor market demands. The focus areas include internship programs that provide students with workplace experience, industry projects that bring real-world challenges into academic settings, employment opportunities that create pathways from education to work, and curriculum feedback mechanisms that ensure educational programs remain relevant to industry needs. This collaboration creates a virtuous cycle where education informs industry practice and industry needs shape educational offerings.



4.3.4 China-Pakistan Alliance for Modern Agriculture and Industry-Education Integration Inauguration



The formal establishment of the China-Pakistan Alliance for Modern Agriculture and Industry-Education Integration creates a permanent platform for sustained collaboration between multiple stakeholders from both countries. The governance structure includes a General Assembly that brings all members together for strategic direction setting, an Executive Committee that provides operational oversight, Technical Working Groups that focus on specific thematic areas, and a Secretariat that handles administrative coordination. The member categories encompass Founding Members who initiated the alliance, Regular Members who participate actively in programs, Associate Members who engage in specific activities, and Observer Members who monitor developments for potential future engagement. This structured approach ensures that the alliance can accommodate diverse levels of engagement while maintaining clear governance and accountability mechanisms for its activities and outcomes.







4.3.5 Weifang Engineering Vocational College Visit

The introductory briefing was delivered by the President of the College. The presentation provided a comprehensive overview of the institution’s scale, academic strengths, and national recognition.

WEVC is recognized as one of the largest public higher vocational institutes in Shandong Province. The college spans over 1,000,000 square meters of campus area with 350,000 square meters of construction space, accommodating more than 20,000 students. Its faculty strength exceeds 1,000 members, of which 630 hold doctoral or master’s degrees. Notably, over 580 faculty members are classified as “double-qualified”, combining advanced academic credentials with professional industry expertise.

During the briefing, the President highlighted WEVC’s selection under the “Double High-level Plan”, a national initiative of the Ministry of Education to build benchmark vocational institutions across China. The college’s academic focus was described under the framework of “four new majors”—engineering, agriculture, business, and education—supplemented with 2 national key majors, 7 featured majors, and numerous enterprise-integrated training programs.

Particular emphasis was placed on the college’s extensive engagement with industry, where curricula are co-developed with leading enterprises, ensuring that graduates are well-aligned with market and technological demands. In this regard, WEVC was identified as a potential strategic partner for Pakistan in areas such as digital curricula development and teacher training programs.

Caterpillar Production System Master Learning Centre

Following the briefing, the delegation was taken on a guided visit to the Caterpillar Production System Master Learning Centre, which has been established at WEVC in collaboration with Caterpillar. The facility is equipped with advanced machining centres, welding stations, and Caterpillar’s specialized machinery components for the construction sector. The Centre was presented as a flagship model of enterprise-academia collaboration, offering practical, industry-standard training in heavy machinery manufacturing, repair, and operations—directly preparing students for modern industrial roles.

Low-Altitude Economy Technology Application Research Institute

The delegation visited the Low-Altitude Economy Technology Application Research Institute, which serves as a specialized hub for developing and applying technologies in the field of unmanned aerial vehicles (UAVs).

A key facility within the institute is the Intelligent UAV Application Technology Demonstrative Virtual Simulation Training Base. This base is designed to provide hands-on exposure and immersive training through simulation technologies, enabling learners to operate UAVs in diverse applications such as mechanical assembly, aerial surveying, logistics, and low-altitude monitoring.

Notably, the facility also engages schoolchildren and younger students, introducing them to UAV applications through user-friendly simulation setups. This demonstrates a forward-looking approach to nurturing interest and competencies in UAV technologies from an early age.

The training base is also integrated into the broader objectives of the institute, which include:

- Development of low-altitude economy applications in agriculture, logistics, and surveillance.
- Research in UAV mechanical systems and intelligent application technologies.
- Capacity building through virtual simulation labs that replicate real-world UAV tasks and safety scenarios.

This initiative reflects China's growing emphasis on expanding the "low-altitude economy" as a new industrial growth area, blending research, education, and public engagement.

Rural E-Commerce Academy

The delegation also visited the Rural E-Commerce Academy, an innovative platform jointly established by Wuzhou Vocational College and Qingzhou Hengxin Technology Co., Ltd.. The academy operates under a government–school–enterprise linkage model, combining policy support, vocational training, and direct industry integration.

- **E-Commerce Studios:** During the visit, it was observed that young students were actively involved in livestreaming sessions, where they showcased and marketed local products on digital platforms.
- **Hands-on Learning:** The academy provides practical opportunities for students to gain real-world exposure in online marketing, digital branding, and sales channel management.
- **Industry Collaboration:** Partnerships with local e-commerce enterprises and chambers of commerce (including Qingzhou Hengxin) ensure alignment with market needs.

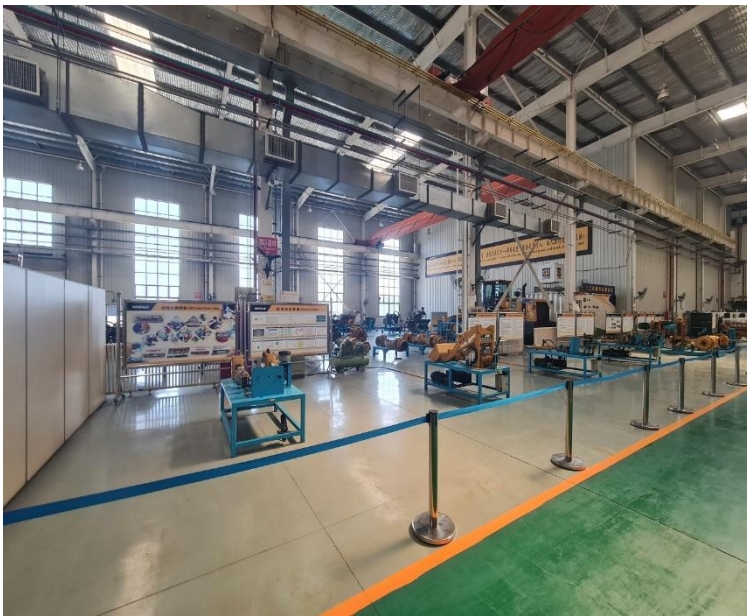
The delegation also visited the Weifang Cultural Art College, which stands as a prominent institution for nurturing talent in cultural and creative industries.

The college integrates arts education, cultural heritage, and modern creative design with vocational training. Facilities include:

- **Art and Design Studios** for painting, sculpture, and traditional crafts.
- **Multimedia and Digital Arts Labs**, showcasing integration of modern technology with creative disciplines.
- **Performance Spaces** for theatre, music, and cultural showcases, promoting student talent development.

The delegation observed students engaged in both traditional Chinese art forms and contemporary design practices, highlighting the college's dual mission: preserving cultural heritage while fostering innovation in creative industries.

This institution plays an important role in regional cultural development and supports the broader agenda of aligning vocational training with cultural industry needs.





Unmanned Aerial Vehicle (UAV) Lab



Students gaining Hands – On E-Commerce Experience

4.3.6 Jidu Modern Agricultural Common Prosperity Industrial Park Visit (Shouguang)

The delegation visited the **Jidu Modern Agricultural Common Prosperity Industrial Park, Shouguang**, on the invitation of local authorities. Shouguang, widely regarded as China's "vegetable basket," is a national leader in agricultural modernization. The visit began with a comprehensive briefing in the exhibition hall, where statistical panels, IoT dashboards, and display material illustrated the park's role in advancing seed development, modern cultivation practices, and digital agriculture. The session was followed by a guided tour of technical facilities and demonstration fields.

Achievements and Institutional Strengths

According to the briefing and displayed material, Shouguang has built an impressive agricultural ecosystem. The city maintains **290 vegetable germplasm resources** and produces **200 million seedlings annually**, giving it a **54% share of the national seed market**. Its seed varieties account for **70% of the vegetable planting area in China**, establishing its status as a **national seed base**.

Processing operations handle **600,000 tons of clean vegetables annually** with 10% annual growth, while the prepared vegetable industry is scaling rapidly. The cooperative network includes **2,194 registered cooperatives**, of which 16 generate revenues above RMB 100 million. Over **1,000 family farms** specialize in vegetables, and more than **54,000 rural talents** have been trained, including 26,000 certified technicians. The extension network reaches nationwide through **8,000 agricultural technicians**.

Shouguang also collaborates with over **40 universities and research institutes**, including the Chinese Academy of Agricultural Sciences and China Agricultural University. Twelve national-level platforms support innovation in breeding, pest control, and soil management, making the park a hub of scientific and educational cooperation.

Sustainable and Quality-Oriented Agriculture

The agricultural model showcased in Shouguang strongly emphasizes **green practices**. Soil organic matter has increased by more than 2% in five years through organic fertilizer and microbial agents. Straw is recycled into compost and substrates, while pest control in over half

of the greenhouses relies on biological methods. The **National Vegetable Quality Evaluation and Testing Center** applies **237 standards** to ensure safety, taste, and nutritional quality. A three-tier **grid supervision system** (county, township, village) supports traceability, achieving 99% accuracy in quality monitoring.

Technical Facilities

During the guided tour, the delegation observed a wide range of modern agricultural facilities.

- **IoT Monitoring Systems:** A centralized digital dashboard tracked temperature, humidity, CO₂ levels, nutrient flows, and light intensity, with AI-driven adjustments for irrigation and pest control.
- **Vertical Farming Towers:** Multi-tier LED-lit systems supported dense cultivation of leafy greens, yielding several times more than open-field farming while conserving space.
- **Aquaponics Units:** Integrated fish and hydroponic systems demonstrated efficient nutrient recycling and up to 90% water savings.
- **Smart Greenhouses:** Climate-controlled structures showcased tomatoes, cucumbers, and peppers, using skylight design and IoT-integrated fertigation systems.
- **Training Bases:** Facilities like the Yumeng Citizen Training Centre provided practical learning opportunities for farmers, students, and rural technicians.
- **Agricultural Drones:** The **Jimu J100 multifunction drone** was demonstrated for spraying, fertilization, and seeding, with a 50 kg payload and advanced navigation features.

Domestic and International Outreach

The park's influence extends across China and abroad. More than **30 demonstration bases** have been set up domestically in provinces such as Beijing, Zhejiang, and Guizhou. Internationally, Shouguang has implemented greenhouse projects in the **Netherlands, UAE, Russia, Japan, South Korea, Canada, and Australia**, making it an exporter of agricultural expertise as well as products.





4.3.7 Weifang Engineering Vocational College Art Intangible Culture Heritage Visit



The delegation was briefed on the Tsingchow Theological College, a historic institution established in 1881 when American missionaries Alfred G. Jones and J. S. Wintervost rented a residence to begin evangelist training. By 1885, the initiative had formally developed into the Tsingchow Theological College, later renamed *Peizhen Academy*. In 1893, the institution was relocated to its present site and was successively led by Dr. Edward Robinson, Dr. Catch, and Dr. Elishu Robinson. During Dr. Elishu Robinson’s tenure, the Academy functioned in a two-story brick-and-wood structure of approximately 470 square meters, comprising 16 rooms with complete residential and functional facilities. Today, this historic college has been meticulously restored by the Chinese authorities and is maintained as a landmark of educational heritage and cultural continuity.



In continuation of the visit, the delegation explored the crafts shops established outside the college, where products created by both students and teachers were displayed for sale. The shops presented a diverse range of items that reflect the integration of learning and creativity within the institution. These outlets not only provide students and faculty an opportunity to showcase their craftsmanship but also serve as a bridge between academic work and the commercial market.

The delegation was informed that such initiatives contribute significantly to the practical learning outcomes of vocational education by enabling learners to engage with real-world production, marketing, and customer interaction. At the same time, they generate income that supports sustainability and motivates both students and teachers to refine their skills. By linking classroom learning with entrepreneurial practice, these shops exemplify how vocational training can nurture creative talent while directly contributing to local economic development.



Cultural Heritage Workshop / Display



4.4 September 30, 2025: Industry Engagement and Specialized Visits

4.4.1 Qingzhou International Flower Expo Visit

The visit to the Qingzhou Flower Expo provided the delegation with extensive insights into commercial floriculture operations and market dynamics. The industry dialogue covered global floriculture market trends including consumer preferences, distribution channels, and emerging opportunities; technology applications in flower cultivation encompassing greenhouse management, post-harvest handling, and quality maintenance; supply chain management best practices that optimize efficiency from production to retail; and export market development strategies that navigate regulatory requirements and market entry barriers. These insights informed discussions about potential floriculture development in Pakistan, identifying specific areas where Chinese expertise could complement Pakistani conditions and market opportunities.









4.4.2 School-Enterprise Cooperation Symposium and Industry-Academia Dialogue

The symposium on school-enterprise cooperation provided a structured platform for discussing practical mechanisms for linking education with industry needs. The discussion themes included comprehensive industry needs assessment methodologies that identify current and future skill requirements; curriculum alignment strategies that ensure educational programs develop relevant competencies; practical training requirements that balance theoretical knowledge with hands-on skills; and employment pathway development that creates smooth transitions from education to work. These discussions produced concrete ideas for enhancing the employability outcomes of TVET programs in Pakistan through closer integration with industry stakeholders.



4.4.3 Huasheng Agriculture Vegetable Seeds Company Visit



The visit to Huasheng Agriculture Vegetable Seeds Company highlighted the critical role of seed technology in agricultural productivity and sustainability. The research and development focus areas observed included developing climate-resilient crop varieties that maintain productivity under changing environmental conditions; disease-resistant seed development that reduces crop losses and chemical inputs; quality control protocols that ensure genetic purity and germination rates; and market adaptation strategies that align seed characteristics with consumer preferences and commercial requirements. This exposure to advanced seed breeding and production techniques identified potential areas for collaboration in developing improved crop varieties suited to Pakistani conditions and markets.

A backbone enterprise in China's seed industry with **200+ vegetable varieties** and **15,000 germplasm resources**.

Key Insights:

- **Global Leadership:** No. 1 worldwide in zucchini germplasm resources.
- **Research Capacity:** Shandong Key Lab of Cucurbitaceae Breeding; Postdoctoral Research Station (2017).
- **Talent Development:** Since 2011, trained **20,000+ professional farmers**.

- **Collaborations:** Joint research with Huawei and national science bodies.
- **Exports:** Products sold in **10+ countries**, annual sales of **300+ tons of seeds**.

Huasheng represents an integrated model of **enterprise-led R&D, rural revitalization, and international agricultural cooperation.**



5.0 Institutional Profiles

5.1 Pakistani Institutions

5.1.1 Punjab TEVTA

Established in 1999, Punjab TEVTA has grown into a massive technical education network encompassing over 400 affiliated institutions that collectively serve more than 150,000 students annually through 250+ trade programs covering diverse sectors. The organization's strengths include its extensive geographical reach across Punjab province, bringing technical education opportunities within reasonable access for most of the population; well-established industry connections that inform program development and facilitate employment outcomes; and consistent government support that provides policy direction and financial resources. However, the organization faces development needs including comprehensive technology upgradation to keep pace with evolving industry practices; systematic faculty capacity building to enhance teaching quality; and expanded international exposure to incorporate global best practices into its operations. Addressing these needs through the collaborations established during this visit could significantly enhance TEVTA's contribution to skills development in Punjab.

5.1.2 Islamia University of Bahawalpur

Founded in 1925, Islamia University of Bahawalpur has evolved into a comprehensive university offering more than 100 undergraduate programs, 80 graduate programs, and 60 doctoral programs across diverse disciplines. The university's research capabilities are substantial, with over 20 specialized research centers conducting investigations across multiple fields, regular international publications contributing to global knowledge, and increasing patent filings demonstrating innovation and practical application of research. The university's established academic infrastructure, experienced faculty, and research expertise position it well to contribute significantly to the higher education components of the collaboration, particularly in areas requiring academic rigor and research-based approaches to problem-solving.

5.1.3 Muhammad Nawaz Shareef University of Agriculture, Multan (MNSUAM)

Established in 2012, Muhammad Nawaz Shareef University of Agriculture, Multan has rapidly developed into a specialized institution dedicated to agricultural and allied sciences. The university offers over 25 undergraduate programs, 20 graduate programs, and 12 doctoral programs spanning disciplines such as agronomy, biotechnology, food science, agricultural engineering, and environmental sciences. MNSUAM's academic portfolio reflects a strong commitment to food security, climate resilience, and sustainable development.

The university's research ecosystem is anchored by emerging centers focused on precision agriculture, climate change adaptation, and agro-industrial innovation. Faculty members actively contribute to peer-reviewed publications and collaborative projects, with increasing emphasis on applied research, entrepreneurship, and community impact. MNSUAM's integration of modern curricula, industry linkages, and technical training frameworks positions it as a dynamic partner in higher education collaborations—particularly in domains requiring agricultural expertise, vocational modernization, and regionally relevant innovation.

5.2 Chinese Institutions

5.2.1 Weifang Vocational College

Weifang Vocational College is a public full-time higher vocational institution established in 2001 with the approval of the Shandong Provincial Government. It is recognized as a National High-Quality Higher Vocational College, a construction unit of China's High-Level Vocational Schools and Specialty Development Plan, and a training base for high-quality rural revitalization talents.

The college consists of two campuses, Kuiwen and Binhai, covering a total area of over 2,000 acres. It comprises 10 full-time secondary schools, offering 7 "3+2" pilot undergraduate programs and 48 three-year higher vocational programs across multiple major disciplines. The college boasts one national high-level specialty cluster, four central government-funded key construction specialties, and other high-quality academic resources.

With a strong faculty team, the college has over 1,100 staff members, including three second-level professors, more than 870 master's and doctoral degree holders, and six national-level

renowned teachers. It has established multiple national and provincial teaching teams and studios, and its faculty has won five national teaching achievement awards, among other honors.

The college has achieved remarkable results in talent cultivation, with students winning 108 awards in the National Vocational College Skills Competition (including 38 first prizes). It achieved a breakthrough for higher vocational colleges in Shandong by winning a special prize in the national "Challenge Cup" competition. The college has a full-time student population of over 20,000, and its graduates enjoy a high employment rate.

The college deepens industry-education integration, collaborating with over 2,000 enterprises and establishing 16 industrial schools. It leads multiple vocational education groups and industry-education integration communities and has received numerous provincial and national honors for industry-academia cooperation. Actively promoting internationalization, the college partners with more than 80 universities in over 30 countries, operates six overseas training centers, and has trained over 1,300 international students.

For three consecutive years, the college has ranked first in the Shandong Higher Vocational Colleges Quality Assessment. It has been selected for multiple national "Top 50" lists for vocational institutions and has been recognized as a National Innovation and Entrepreneurship Education Practice Base, among other accolades.

5.2.2 Weifang Engineering Vocational College

Weifang Vocational College (WVC) is a state-run full-time general vocational college, one of the first construction institutions for Shandong Prestigious College Project. WVC is located in Weifang, covers an area of over 2,500 mu, has over 20,000 full time students, provides three 3+2 undergraduate majors and 52 higher vocational majors of 13 fields, including agriculture, forestry, biochemistry and pharmaceutical, manufacture, electronic information, finance, art design, transport and tourism. Among the majors, seven including Garden technological specialty, are honored to be Shandong Characteristic Majors of Higher Learning Institutions, and three are supported by the central finance. There are 970 faculty. In recent years, the students have won more than 600 prizes in the national and provincial skill competitions. WVC has established educational cooperation with 41 universities and colleges in the United States, South Korea and other countries. More than 10 groups of students have been sent abroad for further study; more than 150 teachers have the experiences to study abroad, and 40 foreign teachers have been employed by the College. The international students of the college come

from America, Korea, Pakistan and other countries. WVC undertook the agricultural training programs for developing countries by Ministry of Commerce four times, agricultural experts have been sent to African countries for technical assistance for three times. In recent years, it has been awarded National Advanced College in Improving Agriculture with Science, Technology and Education, National Advanced Vocational Educational Institution, National Demonstrate Standardized Managed School, etc.

5.2.3 Shandong Vocational College of Science and Technology

Shandong Vocational College for Science & Technology (SVST), established in 1978 in Weifang, Shandong Province, stands as a nationally recognized leader in vocational education. With over 20,000 full-time students and designation as both a National Model Higher Vocational College and a "Double High Plan" institution, SVST exemplifies excellence in skill-based learning. Its academic structure spans more than 60 specialized programs across key departments such as Textile and Apparel, Mechanical and Electrical Engineering, Information Technology, and Civil Engineering. The college's emphasis on employment-oriented curricula, supported by advanced training facilities and simulation labs, ensures that students acquire industry-relevant competencies aligned with China's evolving economic landscape.

At the heart of SVST's educational philosophy is its signature "Four in One" talent development model, which integrates classroom learning, on-campus practical training, long-term internships, and innovation-driven entrepreneurship. This model is reinforced by deep industry collaboration, including "order-based" classes co-designed with corporate partners like Haier, Foxconn, and Weichai Power, guaranteeing high employment outcomes. SVST's semi-military management style fosters discipline and professionalism, while its vibrant campus life and international partnerships with institutions in Germany, South Korea, Australia, and the U.S. position it as a forward-looking institution. SVST is ideally suited for collaborations requiring hands-on technical expertise, structured vocational training, and scalable models for workforce development.

6.0 Technology Transfer and Innovation Components

6.1 Digital Education Technologies

The collaboration encompasses multiple digital education technologies that have potential to transform teaching and learning processes in Pakistani technical institutions. These include comprehensive learning management systems that organize and deliver educational content while tracking student progress; virtual laboratory platforms that simulate practical learning environments for skills development; assessment and evaluation tools that measure learning outcomes reliably and efficiently; and student progress tracking systems that provide data for personalized support and institutional decision-making. The appropriate adaptation and implementation of these technologies could address several challenges in Pakistan's technical education system, including resource constraints, quality consistency, and accessibility.

6.2 Smart Agriculture Technologies

The smart agriculture technologies demonstrated during the visit offer potential solutions for enhancing productivity and sustainability in Pakistan's agricultural sector. These technologies include precision farming equipment that optimizes input use based on specific field conditions; automated irrigation systems that apply water efficiently according to crop needs; crop monitoring technologies that provide real-time information on plant health and growth; and post-harvest management solutions that reduce losses and maintain product quality. The selective adoption of these technologies, adapted to Pakistani conditions and resource constraints, could contribute significantly to agricultural modernization objectives.

6.3 Industry 4.0 Applications

The Industry 4.0 applications observed during various site visits demonstrate the increasing integration of digital technologies in industrial processes, smart manufacturing and technical education. These applications include Internet of Things implementations that connect physical devices for data collection and control; big data analytics that extract insights from large datasets to inform decision-making; artificial intelligence applications that automate complex tasks and provide intelligent assistance; and robotics and automation that enhance productivity and consistency in manufacturing and other processes. Familiarity with these technologies through the collaboration will help prepare Pakistani students and workers for evolving industry requirements in increasingly digitalized economies.

7.0 Implementation Framework and Monitoring Mechanisms

7.1 Project Management Structure

The implementation of the various agreements requires a robust project management structure that ensures coordination, accountability, and timely progress. This structure includes a steering committee with representation from all major partner institutions that provides strategic guidance and resolves high-level issues; technical working groups focused on specific thematic areas that develop detailed plans and address technical challenges; implementation teams at each participating institution that execute agreed activities; and quality assurance mechanisms that monitor processes and outcomes against established standards. This multi-layered structure balances strategic oversight with operational flexibility, adapting to the diverse nature of the various collaboration components.

7.2 Timeline and Milestones

The implementation timeline spans short-term, medium-term, and long-term horizons, with specific milestones for each period. Short-term actions (0-6 months) focus on establishing basic operational frameworks, conducting detailed planning, and initiating immediate activities with quick wins. Medium-term objectives (6-18 months) concentrate on establishing substantive programs, building capacity, and demonstrating tangible outcomes. Long-term goals (18-36 months) aim at achieving sustainability, scaling successful initiatives, and deepening impact. This phased approach ensures steady progress while allowing for learning and adaptation based on experience.

7.3 Performance Indicators

A comprehensive monitoring system will track performance through multiple types of indicators. Quantitative metrics will measure inputs, activities, outputs, and certain outcomes using numerical data that allows for comparison over time. Qualitative assessments will capture perceptions, experiences, and contextual factors that numbers alone cannot reflect. Impact measurements will examine broader changes attributable to the initiatives, while sustainability indicators will assess the likelihood of continued benefits beyond initial implementation. This balanced approach to monitoring will provide a comprehensive picture of progress and challenges, informing continuous improvement efforts.

8.0 Strategic Recommendations

8.1 Immediate Actions

The successful launch of the collaboration requires several immediate actions to establish momentum and operational foundations. These include establishing a joint implementation committee with clear terms of reference and decision-making authority; developing detailed project plans for each agreement component with specific activities, resources, and timelines; mobilizing and allocating necessary resources including funding, personnel, and facilities; and implementing a stakeholder communication strategy that keeps all relevant parties informed and engaged. These foundational steps will create the necessary conditions for effective implementation of the more substantive collaboration activities.

8.2 Medium-term Initiatives

As the collaboration moves beyond initial setup, several medium-term initiatives will build substantive capacity and outcomes. These include implementing comprehensive faculty training programs that enhance pedagogical and technical capabilities; undertaking systematic curriculum adaptation and localization that balances international standards with local relevance; progressing infrastructure development that creates conducive learning environments; and expanding industry engagement to ensure education remains responsive to economic needs. These initiatives will translate the collaboration frameworks into tangible educational improvements and outcomes.

8.3 Long-term Strategies

For sustained impact beyond initial project cycles, long-term strategies focus on institutionalizing collaboration and creating self-sustaining momentum. These strategies include establishing research and development collaboration that addresses ongoing challenges and opportunities; creating technology innovation centers that become hubs for continuous improvement; commercializing joint developments that generate resources for reinvestment; and expanding successful models to other provinces and regions to maximize impact. These strategies aim at creating collaboration ecosystems that endure beyond specific projects or individuals.

9.0 Conclusion and Way Forward

This comprehensive visit has successfully established a strong foundation for sustained Pakistan-China cooperation in TVET and agricultural modernization, creating multiple pathways for knowledge exchange, capacity building, and technological advancement. The eleven agreements signed during the visit cover a strategically selected range of sectors and approaches, addressing both immediate needs and long-term development objectives. The relationships built between institutions and individuals across both countries create social capital that will facilitate implementation and problem-solving when challenges inevitably arise. The formal establishment of the **China-Pakistan Alliance for Modern Agriculture and Industry-Education Integration** provides an institutional home for the collaboration.

The successful implementation of these initiatives will require continuous high-level strategic support that maintains focus and allocates necessary resources; adequate resource allocation that matches ambitions with practical means; technical expertise application that ensures quality implementation; regular monitoring and evaluation that tracks progress and inform adjustments; and adaptive management approaches that respond to changing circumstances and learning from experience. The presence of these enabling factors will significantly influence the ultimate impact of the collaboration on Pakistan's technical education and agricultural sectors.

The China-Pakistan partnership, significantly strengthened through this visit, is now positioned to create substantial impacts on youth employment through relevant skills development, agricultural productivity through appropriate technology adoption, and economic development through enhanced human capital and innovation capacity. The success of this collaboration will benefit all stakeholders for mutual development. With committed implementation of the agreements and sustained engagement from all stakeholders, this partnership can make meaningful contributions to achieving development objectives in both countries while further strengthening the historic bonds between Pakistan and China.

Appendices:

1, Meeting Manual



中巴现代农业产教协同创新发展联盟
China-Pakistan Alliance for Modern Agriculture and Industry-Education Integration



潍坊工程职业学院
Weifang Engineering Vocational College



Prime Minister's Youth Programme

中巴现代农业产教协同创新发展大会

China-Pakistan Conference on Collaborative Innovation in Modern Agriculture and Industry-Education Integration

会议手册

MEETING MANUAL

祝您会议期间工作、生活愉快!

Wish you a pleasant work and life during the conference!

主办单位 Organizer:

潍坊工程职业学院 Weifang Engineering Vocational College

协办单位 Co-Organizers:

潍坊国家农综区产教联合体 Weifang National Agricultural Comprehensive Zone Industry-Education Consortium

潍坊市产教融合研究院 Weifang Industry-Education Integration Research Institute

山东畜牧兽医职业学院 Shandong Vocational Animal Science and Veterinary College

潍坊职业学院 Weifang Vocational College

浙江经济职业技术学院 Zhejiang Institute of Economics and Trade

中教畅享(山东)科技有限公司 ITMC Technology Co., Ltd.

支持单位 Supporting Partners:

巴基斯坦总理办公室总理青年计划 (PMYP) The Prime Minister's Youth Programme

巴基斯坦粮食安全与研究所 Ministry of National Food Security and Research, Pakistan

巴基斯坦驻华大使馆 Embassy of the Islamic Republic of Pakistan

巴基斯坦国家职业教育委员会 National Vocational and Technical Training Commission Pakistan

巴基斯坦旁遮普省技术教育与职业培训局 Technical Education and Vocational Training Authority Punjab

2025年9月28日-30日 中国·青州

September 28-30, 2025 Qingzhou, China

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会议须知 Meeting Instructions

尊敬的各位领导 All Respected Leaders:

欢迎您参加本次中巴现代农业产教协同创新发展大会,为开好本次会议,请您参考以下几点说明:

Welcome to the China-Pakistan Conference on Collaborative Innovation in Modern Agriculture and Industry-Education Integration. For the smooth conduct of this conference, please refer to the following instructions:

1. 本次会议安排在 客房楼一楼雅集会议室,酒店总机: 0536-3886777;
The conference will be held in the Weizun Meeting Room on the first floor of the Guest Room Building. The hotel switchboard number is 0536-3886777.
2. 酒店早餐7:00-9:00,凭房卡用餐,早餐地点位于客房楼二楼阳光餐厅;
The hotel breakfast is served from 7:00 to 9:00. Please use your room card for dining, and the breakfast is available at the Sunshine Restaurant on the second floor of the Guest Room Building.
3. 请参会人员按照会议安排提前20分钟进入会场,按座次表指引就座;
All participants are requested to enter the conference venue 20 minutes in advance according to the conference schedule and take seats as guided by the seating chart.
4. 会议期间,请将通讯工具关闭或调成振动模式;
During the conference, please turn off your communication devices or set them to vibration mode.
5. 会议内容涉及企业商业秘密,请妥善保管会议材料;
The conference content involves the business secrets of enterprises; please properly keep the conference materials.
6. 会议期间,请注意人身与财产安全;
During the conference, please pay attention to your personal and property safety.
7. 酒店经理电话: 王经理 15169538602, 会务组电话: 周老师 18911289217
Hotel Manager: Ms.Wang, 15169538602
Conference Affairs Group: Mr.Zhou, 18911289217
8. 其余未尽事宜,请致电会务组安排解决。
For any other matters not covered above, please call the Conference Affairs Group for assistance and resolution.

中巴现代农业产教协同创新发展大会日程

会议地点	山东省潍坊市青州市仙客来国际酒店壹楼一楼壹楼会议室		会议时间	2025年9月29日-30日	
日期	时间	日程安排	主持人		
9月28日	13:00-20:00	报到			
	20:00-21:00	中巴现代农业产教协同创新发展联盟成立筹备会			
	09:00-09:10	主持人介绍参会嘉宾			
	09:10-09:20	潍坊工程职业学院党委书记 吕秀泉 致欢迎辞			
	09:20-09:30	潍坊市人民政府副市长 狄波 领导致辞			
	09:30-09:40	巴基斯坦驻华大使穆罕默德·汗·穆罕默德 致辞			
	09:40-09:50	旁遮普省技能发展与创业部部长 纳迪尔·查塔 致辞			
	09:50-10:00	中国国际投资促进会副会长、新疆维吾尔自治区人民政府外事、新疆维吾尔自治区国际友好协会副会长、新疆维吾尔自治区国际友好协会理事长 袁建民 视频讲话	赵凤群 (潍坊工程职业学院党委书记)		
	10:00-10:05	中巴现代农业产教协同创新发展联盟成立授牌			
	10:05-10:15	中巴现代农业产教协同创新发展联盟成员单位授牌			
	10:15-10:20	潍坊工程职业学院“巴基斯坦-班-曼学院(中巴农业)”揭牌仪式			
10:20-10:25	现代农业相关专业标准开发与国际资源建设签约仪式				
10:25-10:30	中巴院校合作签约仪式				
10:30-10:35	中巴校企合作签约仪式				
10:35-10:40	“食品安全与检测卓越中心”“海上牧业工场”签约仪式				
10:40-10:50	午餐、合影				
10:50-11:20	巴基斯坦伊斯兰堡伊斯兰大学执行校长 穆罕默德·卡姆兰 主旨演讲 《巴基斯坦农业现状与需求》	陈美霞 (潍坊工程职业学院副院长)			
11:20-11:50	土耳其安卡拉大学园艺系主任 塔尼尔·艾哈迈德 主旨演讲 《巴基斯坦园艺业现状与需求》				
午餐、午休					
9月29日	14:30-15:10	中牧畅享科技有限公司总经理 王鹏 主旨演讲 《数智赋能 产教携手同行》	程宇军 (浙江经贸职业技术学院党委书记)		
	15:10-15:40	华盛农业集团股份有限公司董事长、潍坊工程职业学院花卉与蔬菜产业学院院长 李兴盛 主旨演讲《种业发展史与我国种业企业发展现状》			
	15:40-16:10	北京大学现代农业研究院研究员、课题组长 傅士于佳琳 主旨演讲 《基于AI的杂草防控与实践探索》			
	16:10-16:30	茶歇			
	16:30-17:00	江苏食品药品职业技术学院党委委员、副校长 焦宇知 主旨演讲 《高职院校国际化办学路径的探索与实践》	赵凤群 (潍坊工程职业学院党委书记)		
	17:00-17:30	潍坊工程职业学院副院长 陈美霞 山东畜牧兽医职业学院党委委员、副院长于崇 潍坊工程职业学院党委委员、副院长 赵凤群 职业教育国际合作典型案例分享 交流互动	陈美霞 (潍坊工程职业学院党委书记)		
	晚餐				
9月30日	8:30-10:30	青州花卉产业基地调研			
午餐					
9月30日	14:00	离会返程			

Agenda of the China-Pakistan Conference on Collaborative Innovation in Modern Agriculture and Industry-Education Integration

Venue	Weizun Meeting Room, 1st Floor, Guest Room Building, Cyclamen International Hotel, Qingzhou City, Weifang City, Shandong Province		Time	September 28th to 30th, 2025	
Date	Time	Content of Agenda	Host		
September 28th	13:00-20:00	Conference Registration			
	20:00-21:00	Preparatory Meeting for the Establishment of the China-Pakistan Alliance for Modern Agriculture and Industry-Education Integration			
	09:00-09:10	The host introduces the guests			
	09:10-09:20	Welcome remarks by the Secretary of the Party Committee of Weifang Engineering Vocational College, Liu Yaoliang			
	09:20-09:30	Speech by the Leader Vice Mayor of Weifang Municipal People's Government, Di Bo			
	09:30-09:40	Speech by the Science Counsellor of Embassy of the Islamic Republic of Pakistan, Khan Muhammad			
	09:40-09:50	Speech by the Secretary-General of Skills Development & Entrepreneurship Department, Punjab, Nadir Chattha	Zhao Fengqun (Member of the Party Committee and Vice President of Weifang Engineering Vocational College)		
	09:50-10:00	Video Speech by President of the China International Investment Promotion Association, Counsellor of the People's Government of Jiangsu Province, Vice President of the Jiangsu Provincial Association of Friendship with Foreign Countries, and President of the Jiangsu International Friendship Liaison Association Yuan Jianmin			
	10:00-10:05	Inauguration Ceremony of China-Pakistan Alliance for Modern Agriculture and Industry-Education Integration			
	10:05-10:15	Awarding of Plaque to Member Units of China-Pakistan Alliance for Modern Agriculture and Industry-Education Integration			
	10:15-10:20	Unveiling Ceremony of "Luban-Mat College (ISAGRIC)" of Weifang Engineering Vocational College			
10:20-10:25	Signing Ceremony for the Development of Professional Standards Related to Modern Agriculture and the Construction of International Resources				
10:25-10:30	Signing Ceremony for Cooperation Between Chinese and Pakistani Colleges and Universities				
10:30-10:35	Signing Ceremony of School-Enterprise Cooperation between China and Pakistan				
10:35-10:40	Signing Ceremony of "Center of Excellence for Food Safety and Inspection" "The Oasis Skills Workshop"				
10:40-10:50	Group photo/Tea break				
10:50-11:20	Keynote speech 《The Current Situation and Needs of Agriculture in Pakistan》 by the Executive Principal of Islamia University of Bahawalpur (IUB), Muhammad Kamran	Chen Meixia (Vice Dean of Weifang Engineering Vocational College)			
11:20-11:50	Keynote speech 《The Current Situation and Demand of the Flower Industry in Punjab Province, Pakistan》 by the Chairman Department of Horticulture of Muhammad Nawaz Sharif University of Agriculture, Multan (MNSUAM), Tanveer Ahmad				
Lunch					
Afternoon September 29th	14:30-15:10	Keynote speech 《Empowering with Digital Intelligence and Moving Forward Hand in Hand in Industry and Education》 by the General Manager of ITMC Technology Co., Ltd., Wang Peng	He Shiqian (Member of the Party Committee and Vice President of Ziboqing Vocational College)		
	15:10-15:40	Keynote speech 《The Development History of the Seed Industry and the Current Development Status of China's Seed Industry Enterprises》 by the President of the College of Flower and Vegetable Industry Weifang Engineering Vocational College, the Chairman of Huasheng Seed Group Co., Ltd., Li Xingsheng			
	15:40-16:10	Keynote speech 《AI-based Weed Control and Practical Exploration》 by the Researcher and Project Leader, Institute of Advanced Agricultural Sciences, Doctor Yu Jialin			
	16:10-16:30	Tea break			
	16:30-17:00	Keynote speech 《Construction of International Teaching Resource Library》 by the Member of the Party Committee and Vice President of Jiangsu Food & Pharmaceutical Science College, Jiao Yuzhi	Zhu Jindan (Member of the Party Committee and Director of the Scientific Research Department of Taihan Polytechnic)		
	17:00-17:30	Share and Communicate, Sharing of Typical Cases in International Cooperation in Vocational Education/Vice Dean of Weifang Vocational College, Chen Meixia Member of the Party Committee and Vice President of Shandong Vocational Animal Science and Veterinary College, Yu Miao Member of the Party Committee and Vice President of Weifang Engineering Vocational College, Zhao Fengqun			
	Dinner				
Morning September 30th	8:30-10:30	Survey of Qingzhou Flower Industry Base			
Lunch					
Afternoon September 30th	14:00	Leave the meeting and return			

演讲嘉宾 Keynote Speakers



Khan Muhammad 汗·穆罕默德
Science Counsellor 科技参赞
Embassy of the Islamic Republic of Pakistan 巴基斯坦驻华大使馆



Nadir Chattha 纳迪尔·查塔
Secretary-General 秘书长
Skills Development & Entrepreneurship Department, Punjab 旁遮普省技能发展与创业部



Muhammad Kamran 穆罕默德·卡姆兰
Executive Principal 执行校长
Islamia University of Bahawalpur (IUB) 巴哈尔瓦尔伊斯兰大学



Tanveer Ahmad 塔尼尔·艾哈迈德
Chairman Department of Horticulture 园艺系主任
Muhammad Nawaz Sharif University of Agriculture, Multan (MNSUAM) 木尔坦农业大学

演讲嘉宾 Keynote Speakers



赵凤群 Zhao Fengqun
潍坊工程职业学院党委委员、副校长
Member of the Party Committee and Vice President of Weifang Engineering Vocational College



陈美霞 Chen Meixia
潍坊工程职业学院副院长
Vice Dean of Weifang Vocational College



于淼 Yu Miao
山东畜牧兽医职业学院党委委员、副院长
Member of the Party Committee and Vice President of Shandong Vocational Animal Science and Veterinary College



焦宇知 Jiao Yuzhi
江苏食品药品职业技术学院党委委员、副院长
Member of the Party Committee and Vice President of Jiangsu Food & Pharmaceutical Science College



李兴盛 Li Xingsheng
潍坊工程职业学院花卉与蔬菜产业学院院长
President of the College of Flower and Vegetable Industry, Weifang Engineering Vocational College
华盛农业集团股份有限公司董事长 Chairman of Huasheng Seed Group Co., Ltd.



于佳琳 Yu Jialin
北京大学现代农业研究院研究员、课题组长
Researcher and Project Leader, Institute of Advanced Agricultural Sciences



王鹏 Wang Peng
中牧畅享科技股份有限公司总经理
General Manager of ITMC Technology Co., Ltd.

中巴现代农业产教协同创新发展联盟简介

中巴现代农业产教协同创新发展联盟是服务国家“职教出海”战略的重要平台，锚定中巴经济走廊2.0农业优先方向，积极探索“教随产出、产教同行”合作模式，由潍坊工程职业学院、潍坊职业学院及山东畜牧兽医职业学院牵头，联合中巴农业教育、职教及产业界力量，携手巴基斯坦农业技术教育与职业培训局，共同构建服务大国外交、支撑经济走廊建设的农业产教协同平台。联盟成立背景深刻：农业作为中巴经济走廊第二阶段优先领域，被列入《中巴命运共同体行动计划》。巴基斯坦农业贡献较大经济份额但面临技术提升等挑战，中国在农业科技与职教领域积累了独特优势，双方通过联盟实现优势互补，探索“教育+科技+产业”协同新路径，为经济走廊注入民生动能。

联盟的核心职能聚焦于人才培养、技术转移、人文交流及产业协同四大领域，形成有机衔接、层层推进的合作体系：

一、人才培养

作为联盟的基础职能，人才培养以推广中国“中文+职业技能”模式为核心，与巴方院校合作共建农业类专业学院，协同开发符合中巴两国标准的课程体系。通过实施“企业导师+院校教师”双师教学与“教室+田间”双场景实训，系统化、本土化地推进技术技能培训。该体系计划每年为巴基斯坦培养数百名农业领域技术人才，致力于打造“职教出海”的标杆项目，为农业现代化提供稳定人才支撑。

二、技术转移

技术转移是联盟的关键职能，重点聚焦现代农业技术、设施与装备等领域。通过在旁湾省建设农业现代化示范区建设，推广中国抗逆作物品种和智能农业技术，实现中国先进农业技术的系统引入与本地化应用。同步开发与技术相匹配的课程资源，建设实训基地，确保“技术推广”与“教育培训”同步推进，切实提高作物产量与资源利用效率。

三、人文交流

人文交流是联盟的纽带职能，旨在通过师生互访、文化交流、语言合作等形式，增进中巴双方的理解与信任。组织开展中巴农业文化互鉴、职业技能教师培训、学生夏令营等活动，促进两国在农业教育理念、教学方法等方面的深度融合，为长期合作奠定坚实的民意基础。

四、产业协同

产业协同是联盟职能的落地实施，旨在推动中资农业企业入驻巴基斯坦经济特区，践行“教随产出、产教融合”理念。通过在企业运营过程中联合办学、共建实训基地，实现“生产与教学协同”，定向培养专业技术工人，延伸农产品加工产业链。此举不仅可创造更多就业岗位，提升农民收入，也通过实施“小而美”的民生项目，切实促进当地社会经济可持续发展。

其战略意义体现在三个维度：外交上，以“产教同行”深化中巴命运共同体，通过技能培训助力巴基斯坦民众增收，夯实全天候发展的社会基础，为中国与发展中国家合作提供可借鉴的职教合作范式；经济上，有助于巴基斯坦提升农业生产力，推动相关产业发展，对中国推动技术装备与标准输出，形成“技术+投资”双输出格局；示范上，“教随产出”模式被视为经济走廊“有益实践”，为深化沿经济走廊国家合作提供机制参考。展望未来，联盟将持续深化“职教出海、产教同行、教随产出”模式，扩大技术示范覆盖主要农业产区，升级人才培养体系，深化产业协同，为构建中巴命运共同体注入新动能。

7

Introduction to the China-Pakistan Alliance for Modern Agriculture and Industry-Education Integration

The China-Pakistan Alliance for Modern Agriculture and Industry-Education Integration is a key platform for serving the national strategy of "Vocational Education Going Global". It focuses on the agriculture-oriented direction of the China-Pakistan Economic Corridor (CPEC) Phase II, and actively explores the cooperation model of "education following industry output, and industry and education advancing hand in hand". Led by Weifang Engineering Vocational College, Weifang Vocational College, and Shandong Vocational Animal Science and Veterinary College, the Alliance joins forces with entities from the agricultural education, vocational education, and industrial sectors of both China and Pakistan, and collaborates with the Technical Education & Vocational Training Authority, Punjab (TEVTA), Pakistan, to jointly build an agricultural industry-education collaboration platform that serves major-country diplomacy and supports the construction of the Economic Corridor. The Alliance has a profound background for its establishment: As a priority area in the second phase of the China-Pakistan Economic Corridor, agriculture has been included in the (China-Pakistan Community with a Shared Future Action Plan). While agriculture contributes a significant share to Pakistan's economy, the country also faces challenges such as the need for technological upgrading. China, on the other hand, has accumulated certain advantages in the fields of agricultural science and technology as well as vocational education. Through the Alliance, the two sides can achieve strategic complementarity, explore a new coordinated path of "education-science and technology-industry", and inject livelihood momentum into the Economic Corridor.

The core functions of the Alliance focus on four major areas—talent cultivation, technology transfer, people-to-people exchanges, and industrial collaboration—forming an organically connected and progressive cooperation system:

Talent Cultivation As the fundamental function of the Alliance, talent cultivation centers on promoting China's "Chinese Language + Vocational Skills" model. It collaborates with Pakistani institutions to jointly establish agricultural professional colleges and develop a curriculum system that meets the standards of both China and Pakistan. By implementing the "enterprise mentor + college teacher" dual-instructor teaching model and the "classroom + field" dual-scenario practical training, the Alliance advances systematic and localized technical skills training. This system plans to train hundreds of technical talents in the agricultural field for Pakistan every year, striving to build a benchmark project for "Vocational Education Going Global" and provide stable talent support for agricultural modernization.

Technology Transfer Technology transfer is a crucial function of the Alliance, with a focus on modern agricultural technologies, facilities, and equipment. By promoting the construction of modern agricultural demonstration zones in Punjab Province, and popularizing China's stress-tolerant crop varieties and smart agricultural technologies, the Alliance realizes the systematic introduction and localized application of China's advanced agricultural technologies. Simultaneously, it develops curriculum resources matching the technologies and builds practical training bases to ensure "synchronized advancement of technology promotion and education and training", effectively improving crop yields and resource utilization efficiency.

People-to-People Exchanges Serving as a link function of the Alliance, people-to-people exchanges aim to enhance mutual understanding and trust between China and Pakistan through teacher-student exchanges, cultural interactions, language cooperation, and other forms. It organizes activities such as China-Pakistan agricultural cultural mutual learning, vocational and technical teacher training, and student summer camps, promoting in-depth integration between the two countries in terms of agricultural education concepts and teaching methods, and laying a solid public opinion foundation for long-term cooperation.

Industrial Collaboration As an extension of the Alliance's functions in practice, industrial collaboration aims to promote Chinese-funded agricultural enterprises to settle in Pakistan's special economic zones and practice the concept of "education following industry output and integration of education and industry". By jointly running schools and building practical training workshops during the operation of enterprises, it achieves "synergy between production and teaching", cultivates professional and technical workers in a targeted manner, and extends the agricultural product processing industry chain. This initiative not only creates more job opportunities and increases farmers' income but also effectively promotes the sustainable development of the local social economy through the implementation of "small yet practical" livelihood projects.

The strategic significance of the Alliance is reflected in three dimensions:

Diplomacy It deepens the China-Pakistan Community with a Shared Future through "industry and education advancing together". By helping Pakistani people improve their income via skills training, it consolidates the social foundation of the all-weather friendship and provides a replicable vocational education cooperation model for China's cooperation with other developing countries.

Economy It helps Pakistan improve agricultural productivity and drive the development of related industries. For China, it facilitates the export of technologies, equipment, and standards, forming a "technology + investment" dual-export pattern.

Demonstration The model of "education following industry output" is regarded as a "valuable practice" for the Economic Corridor, providing a institutional reference for deepening cooperation among countries along the corridor. Looking ahead, the Alliance will continue to deepen the model of "Vocational Education Going Global, industry and education advancing together, and education following industry output". It will expand technology demonstration to cover major agricultural production areas, upgrade the talent cultivation system, and deepen industrial collaboration, so as to inject new momentum into the building of the China-Pakistan Community with a Shared Future.

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潍坊工程职业学院简介

潍坊工程职业学院是国办全日制普通高等专科学校，总占地面积1500余亩，建筑面积35万平方米，教职工千余人，其中博士、硕士630余人，“双师型”教师560余人；在校生2万余人。设有13个二级学院（部），40个普通高职专业。

学院办学历史悠久，文化底蕴深厚。起源于1981年创办的培真书院，1978年举办高等专科学校，1998年转型职业教育。学院先后获评全国高职院校创新创业教育工作先进单位、山东省技能型人才培养特色名校、山东省优质高等职业院校、山东省乡村振兴示范性职业院校、山东省校企一体化合作办学示范院校等。今年7月，学院被教育部、财政部确定为第二期“双高计划”建设单位，迈入内涵式高质量发展新阶段。

学院精准对接区域产业发展需求，全面实施专业升级改造，打造了新工科、新农科、新商科、新教育“四新”专业群，形成了以工程类专业为核心，适应区域产业分布形态的专业结构。拥有中央财政支持专业2个、国家级骨干专业3个，省级校企一体化合作办学项目2个、高水平专业群3个、品牌专业群2个、特色专业7个。9个专业在山东省高职院校专业发展水平考核中位居第1。获批11个“3+2”专升本贯通专业，规模居全省第3。

学院积极应对教育改革发展和专业建设需要，以技能竞赛为抓手，以教育科研为动力，全面提升人才培养质量。获职业教育国家级教学成果二等奖2项，省级教学成果特等奖2项、一等奖7项、二等奖12项。近三年，师生在全省技能大赛中获奖400余项，国家级、省级科研立项及获奖270余项。师生团队在世界职业院校技能大赛总决赛争夺赛中荣获金奖1项、银奖3项。

学院实施人才强校战略，打造了一支政治素质过硬、业务能力精湛的高素质人才队伍。建有省级教学团队7个、高校黄大年式教师团队3个、职业教育教学创新团队6个、名师工作室6个，拥有全国航空职业教育教学名师1人，省级教学名师、青年技能名师16人；省级及以上技术能手（大师）11人；潍坊市青年专家1人、5名教师获中非职业联盟授予突出贡献奖。

大力推进校企深度合作、产教深度融合，全力助推区域经济社会发展。建成省级重点实验室1个、高等学校研发中心5个、科普专家工作室1个，市重点实验室13个、工程技术研究中心3个。获省高校优秀成果一等奖3项、教育科学研究优秀成果一等奖3项、高等学校应用技术协同创新中心1个、职业教育职业技能传承创新平台2个，荣获山东省社科普及先进单位，与华正检测共建药品分析检测中心，获批国家级生产性实训基地、省中小企业公共服务平台；成立5个职教集团，建成产业学院18个，牵头组建全国产教融合共同体2个、市行业产教融合共同体4个，2项案例入选全国职业教育产教融合优秀案例。校企合作共建山东省首个非遗产业学院，获评全省“非遗进校园”典型案例。

面对新机遇、新任务、新挑战，潍坊工程职业学院将以认真落实加快推进现代职业教育体系建设改革要求，主动融入国家、区域发展战略，全力推进“新双高”建设，为经济社会高质量发展提供人才支撑和智力保障。

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Weifang Engineering Vocational College

Weifang Engineering Vocational College is a public full-time general college of higher specialized education. It covers a total area of over 1,500,000 square meters, including a construction area of 350,000 square meters. In the college, there are more than 1,000 faculty members, among which, nearly 630 teachers have doctor's or master's degrees and more than 560 teachers are recognized as "double-qualified" teachers; there are also over 20,000 enrolled students now at the College. Besides, the college embraces 13 secondary schools and 40 higher vocational majors.

With a long history and a profound cultural heritage, the college dates back to the Peizhen Academy established in 1881. It began to host higher specialized education in 1978 and transformed into vocational education in 1998. The College has been ranked as an advanced unit of China's higher vocational colleges in innovation and entrepreneurship education, a famous college of Shandong Province in training skilled talents, a high-quality higher vocational college of Shandong Province, a demonstration vocational college of rural revitalization in Shandong Province, a model college of Shandong Province in school-enterprise integration cooperation and so on. Besides, in July, 2025, the college was identified by the Ministry of Education and the Ministry of Finance as a member to join the second phase of national "Double High-level Plan" (plan for building high-level vocational colleges and specialties with Chinese Characteristics), entering a new stage of high-quality connotative development.

Aligning with the demands of regional industrial development precisely, the college has implemented major upgrading and transformation projects comprehensively. It has created a "four-new" major cluster of new engineering, new agriculture, new business and new education and has also formed a major structure with engineering-related majors at its core to adapt to the pattern of regional industrial distribution. It has 2 majors supported by the central government's finance, 3 national key majors, 2 provincial-level school-enterprise integrated cooperative education projects, 3 high-level major clusters, 2 brand major clusters and 7 featured majors. Besides, 9 majors of the college were ranked first in the major development assessment of higher vocational colleges in Shandong Province. The college has been approved for 11 "3+2" integrated junior college and undergraduate programs, ranking third in the province in terms of scale.

Adapting to the needs of educational reform and development as well as major construction actively, the college takes skills competitions as its starting point and educational research as its driving force to enhance the quality of talent cultivation comprehensively. The college has won 2 second prizes of national teaching achievements in vocational education, 2 special prizes, 7 first prizes and 12 second prizes of provincial teaching achievements. In the past three years, teachers and students of the college have won over 400 awards in provincial skills competitions and over 270 national and provincial-level scientific research projects and awards. The teacher-student teams of the college won 1 gold award and 2 silver awards in the match for the first of World Vocational College Skills Competition.

The college has implemented the strategy of strengthening the college through human resource development and it has cultivated a high-quality talent team with excellent political qualities and superb professional skills. In the college, there are 7 provincial-level teaching teams, 3 Huang Dazhan-style teaching teams, 6 vocational education and teaching innovation teams and 6 master teacher studios. It has also 1 national teaching master in aviation vocational education, 18 provincial-level teaching masters and young skills masters, 11 technical experts (masters) at provincial level or above and 1 young expert of Yunnan Scholars. 5 teachers were awarded the Outstanding Contribution Award by the China-Africa Vocational Education Alliance.

The college has vigorously promoted in-depth cooperation with enterprises and realized efficient integration of industry and education, and it has spared no effort to boost the economic and social development of the region. 1 provincial key laboratory, 5 research and development centers of higher education institutions, 1 science popularization expert studio, 13 key municipal laboratories and 3 engineering technology research centers have been established. It has won 3 first prizes for outstanding achievements in provincial colleges and universities, 3 first prizes for outstanding achievements in educational scientific research, 1 high-quality collaborative innovation center for applied technology in higher education institutions and 2 platforms for the inheritance and innovation of vocational education skills and techniques. It has also been awarded the title of Advanced Unit for Social Science Popularization in Shandong Province. Also, the college has established a food and drug analysis and testing center with Huazheng Testing, and it was approved as a national-level production-oriented training base and a provincial public service platform for small and medium-sized enterprises. The college has established 5 vocational education groups, built 18 industrial colleges, and taken the lead in setting up 2 national industry-education integration communities and 4 municipal industry-education integration communities. Two cases were selected as outstanding models of industry-education integration in national vocational education. The college has also built the first school of intangible cultural heritage industry in Shandong Province together with governments and enterprises, which was awarded as a typical case of "Intangible Culture" in the province.

Facing new opportunities, new tasks and new challenges, Weifang Engineering Vocational College will earnestly implement the reform requirements for accelerating the construction of a modern vocational education system, actively integrate into the national and regional development strategies, and fully promote the development of "New Double High-level Plan", providing talent support and intellectual guarantees for the high-quality development of economy and society.

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中教畅享科技股份有限公司简介

中教畅享科技股份有限公司是一家专注于数字化人才发展的科技服务商,秉持“服务院校、赋能企业、铸就人才”的宗旨,致力于用“All in AI”的方式,提高教与学的效率和效果,提升技能测评的信度和效度。为院校提供教学产品和解决方案,为企业人才发展提供技能测评服务,为个人职业发展提供培训与评价服务。

公司成立于2007年,总部坐落北京,旗下拥有12家子公司、20个分支机构和1所职业培训学校,在北京和潍坊设立了两个研发中心,在南京设立了1个教师发展中心。公司拥有11项专利,273项软件著作权,是国家认定的高新技术企业,国家中小企业公共服务示范平台,北京市“专精特新”中小企业,人力资源和社会保障部门遴选的首批社会培训评价组织,教育部门遴选的“学历证书+若干职业技能等级证书”(“1+X证书”)试点企业,教育部、人力资源和社会保障部主办的大赛技术支持单位。公司获得“全国职业院校技能大赛突出贡献奖”“中国商业联合会科学技术奖”“全国商业科技创新型企业”等荣誉和奖项。

18年来,公司始终坚守“从企业实践中来,到教育实践中去”的理念,基于数字技术赋能专业技能培训,为全国31个省市的4000余所职业院校、技工院校、本科院校,提供科技服务、技能培训、技能评价等全方位支持,包括但不限于教学资源开发、实验实训条件建设、师资培训、行业咨询与合作、合作办学、科研支持以及学生就业指导等。

公司响应教育部要求高水平院校要“教随产出、产教同行”的国际化办学号召,积极参与国际合作。目前,公司已经与巴基斯坦总理青年计划办公室、巴基斯坦国家职教委及各省职教局签署合作协议,建立合作关系,开展系列国际合作项目,包括标准开发、国际专业教学资源库建设、海外工坊/学院建设、境外合作办学,以及海外分校、海外职业技术学院、海外应用技术大学建设等。全力打造中国职业教育国际化品牌,培养一批服务中国企业海外发展的本土化技术技能人才,为各国学员提供职业教育和就业发展机会。

ITMC Technology Co.,Ltd.

ITMC Technology Co., Ltd. is a technology service provider dedicated to the development of digital talents. Adhering to the mission of "serving educational colleges and universities, empowering enterprises, and shaping talents", it is committed to enhancing the efficiency and effectiveness of teaching and learning, as well as improving the reliability and validity of skill assessment, through the "All in AI" approach. It provides teaching products and solutions for educational institutions, skill assessment services for enterprise talent development, and training evaluation services for personal career development.

ITMC was established in 2007. The headquarters is located in Beijing. It has 12 subsidiaries, 20 branches and 1 vocational training school. It has 2 R&D centers in Beijing and Weifang, and 1 teacher development center in Nanjing. ITMC holds 11 patents and 273 software copyrights. It is a nationally recognized high-tech enterprise, national small and medium-sized enterprise public service demonstration platform, a "specialized, refined, distinctive and innovative" small and medium-sized enterprise, one of the first batch of social training evaluation organizations selected by the human resources and social security department, a pilot enterprise for "degree certificates + several vocational skill level certificates" (1+X certificates) selected by the education department, and a technical support unit for competitions organized by the Ministry of Education and the Ministry of Human Resources and Social Security. ITMC has received honors and awards such as "Outstanding Contribution Award in National Vocational College Skills Competition", "Science and Technology Award of China Commercial Federation", and "National Commercial Innovation Enterprise".

For the past 18 years, ITMC has consistently adhered to the principle of "starting from practical enterprise activities and applying them to educational practice". Based on digital technology skills, it has empowered professional development, providing comprehensive support to over 4,000 vocational colleges, technical colleges, and undergraduate universities across 31 provinces and regions in China, including but not limited to the development of teaching resources, the construction of experimental and training facilities, teacher training, industry consultation and cooperation, cooperative education, research support, and student career guidance.

In response to the call from the Ministry of Education for high-level institutions to implement the internationalized educational model of "teaching in line with output and integrating production and education", ITMC actively participates in international cooperation. Currently, ITMC has signed cooperation agreements with the Office of the Prime Minister's Youth Program of Pakistan, the National Vocational Education Committee of Pakistan, and the vocational education bureaus of various provinces, establishing cooperative relationships and launching a series of international cooperation projects, including standard development, construction of international professional teaching resource libraries, establishment of overseas workshops/colleges, overseas cooperative education, overseas branch campuses, overseas vocational colleges, and overseas applied technology universities. It is striving to build a brand of China's vocational education internationalization, cultivating a group of local technical and skilled talents who can serve the overseas development of Chinese enterprises, and providing vocational education training and employment development opportunities for students from various countries.

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中巴现代农业产教协同创新发展联盟

CHINA-PAKISTAN ALLIANCE FOR MODERN AGRICULTURE AND INDUSTRY-EDUCATION INTEGRATION

