Practice of Open Regional Industry Education Integration Practice Center

-- Taking the Blue Future Special Needs Education Industry College as an Example

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Abstract: In order to implement the national policies and guidelines on the integration of industry and education, and effectively improve the quality of talent cultivation, Sichuan Urban Vocational College and Chengdu Bru Future Education Consulting Co., Ltd. jointly build the Industry College of Bru Future Special Education of Sichuan Urban Vocational College as the practice center for the integration of industry and education. The practice center is deeply integrated into the system engineering of talent cultivation, achieving a win-win situation for both schools and enterprises. The construction of the practice center will carry out projects such as student practical training, social training, and technical services, provide digital empowerment, and cultivate high skilled talents in the industry that are in short supply.

Keywords: Integration of Industry and Education; Practice Center; Special Needs Education.

1. Situation of the Construction Unit

1.1. Situation of the Construction Unit

Chengdu Bru Future Education Consulting Co., Ltd. focuses on the rehabilitation field of children with autism (autism) and other generalized developmental disorders. It is a comprehensive service company with a background of university cooperation, driven by rehabilitation knowledge, technology, and services, and a business carrier of child rehabilitation, talent cultivation, human resource platform services, institutional services, and career path planning for special needs children. It serves special needs children and families, rehabilitation institutions, explores digital rehabilitation models, and explores the direction of special needs children's growth path planning nationwide.

Chengdu Bru Future Education Consulting Co., Ltd. adheres to the belief of "professional support for hope, love for the future", and aims to achieve the beautiful vision of "making every star shine, igniting hope for every family, and adding care and understanding to society". We provide health services and future development planning services for children and adolescents with special needs, provide professional qualification certification and human resources service platform for practitioners, provide talent cultivation and discipline construction in special needs fields for the industry, and support children, families, schools, and medical institutions. The company focuses on the field of children's education and rehabilitation, relying on its advantages in education, scientific research, technology, management, and talent resources to output comprehensive integrated rehabilitation knowledge, technology, and services, promoting the professionalization, standardization, and digitization process of the industry. It has two major university cooperation platforms, namely the Bruwei Lai Special Needs Education Industry College of Sichuan Urban Vocational College and the Haowen Autism Research Center of Sichuan Normal University, providing rehabilitation education services for families, vocational education for rehabilitation practitioners, development solutions and technical support for institutions, and assisting industry development.

The company currently has more than 40 employees and a teaching and research team of more than 30 people. It has a strong faculty in the rehabilitation field of children with autism and other pervasive developmental disorders in the southwest region.

1.2. Situation of Construction Units

In 1999, the predecessor of the school, Nanyang College of Sichuan Normal University, was established; in 2002, the school was renamed as the School of Information Technology of Sichuan Normal University; in 2007, Sichuan Urban Vocational College was established on the basis of the School of Information Technology and the School of Foreign Affairs of Sichuan Normal University. In 2013, passed the evaluation of talent cultivation in higher vocational colleges; in 2017, it was included in the "Thirteenth Five Year Plan" for upgrading of talent cultivation in higher vocational colleges; in 2017, it was included in the "Thirteenth Five Year Plan" for upgrading of talent cultivation in higher vocational colleges; in 2021, it was listed as a high-level vocational school training unit in Sichuan Province. The overall educational conditions of the school are higher than the standards set by vocational colleges, and the digital campus infrastructure is higher than the standards of the Digital Campus Standards for Vocational Colleges.

The school currently has two campuses, Chengdu and Meishan, covering an area of 1602 acres, with a building area of 580000 square meters. The total value of teaching and research equipment is 170 million yuan, and the library has a collection of 1.57 million books. There are more than 16000 full-time vocational college students on campus. There are six professional colleges, including the School of Information Technology, the School of Urban Construction and Design, the School of Intelligent Manufacturing and Transportation, the School of Medicine and Health, the School of Economics and Management, and the School of Education. There are also
through practical work in real positions, provide external training to promote the integrated development of special needs children, and further deepen the integration of industry and education.

1) Establishing management systems to promote effective operations

To ensure the effective operation of the campus production and training base, based on the School Enterprise Cooperation Agreement, further clarify the rights and obligations of both parties. In order to ensure the smooth daily operation of the training base, a series of management systems have been revised and improved. [3] Including: clarifying the daily management standards of the Industrial College, including equipment maintenance, safety management, environmental hygiene, and other aspects; Develop curriculum, teaching plans, assessment and evaluation for educational internships, course training, and job internships; Encourage full-time teachers to participate in various work of the Industrial College, improve their practical teaching ability and enterprise cooperation experience, etc.

2) School enterprise teachers jointly discuss and promote development

On the basis of practical experience, both parties jointly create course project content, combine theory with practice, and promote two-way development in a real environment, thereby improving high-quality course construction and project application.

This year, the center has launched 5 student training programs to the outside world, undertaking practical courses such as job internships 1 and 2, infant and child care, and childcare teacher training.

3. Construction and Open Operation Demonstration

Autism, also known as autism, is a widespread developmental disorder that severely impairs children's social adaptation, social skills, and self-care abilities, seriously affecting their quality of life. At the same time, it also brings a heavy burden to families and society, and this disease has gradually attracted high attention from parents and various sectors of society. Therefore, early detection, diagnosis, and intervention treatment are particularly important. Due to the severe situation, the United Nations General Assembly passed a resolution in December 2007 to designate April 2nd as World Autism Care Day starting from 2008.

Infants and young children are in a critical period of brain growth and maturity, during which their neural plasticity is very strong. The earlier the diagnosis and intervention, the smaller the degree of functional defects in adulthood, which confirms the importance of early intervention in the treatment of autism. Related studies have shown that children with autism spectrum disorder at a young age show more significant developmental progress after formal institutional training and intervention. Early diagnosis and intervention can better improve the language, social skills, and coping abilities of children. At present, there is a serious lack of research in related fields and institutions and personnel that can provide early care services and treatment for children with special needs in China. Therefore, it is very urgent to carry out research in related fields and train rehabilitation treatment personnel.

The Future Special Education Industry College of Sichuan City Bru has established a Behavioral Development Research
Center, which is qualified to train teachers in the field of rehabilitation for children with autism and other pervasive developmental disorders. The center has established a "industry education research" education and training project that integrates education, scientific research, and industry. Through a closed-loop service system of teacher resources, teaching, scientific research, and human resource allocation, it is mainly committed to cultivating practical talents in rehabilitation education for children with autism (autism) and other generalized developmental disorders. It solves the huge talent gap in the industry for rehabilitation teachers who directly participate in children's rehabilitation education. At the same time, it is committed to the practice and research of rehabilitation education technology for special children, providing more data support for the field of rehabilitation education for children with autism (autism) and other generalized developmental disorders, exploring more empirical and effective intervention technologies, providing rehabilitation education services for families, vocational education for rehabilitation practitioners, and development solutions for institutions. Provide solutions and technical support to support industry development.

The Industrial College, in collaboration with the Southwest Branch of the Association for Behavior Analysis International (ABAI), has established the "Bru Future Alliance" to empower kindergartens (regular schools), child care centers, and institutions with professional talent and teaching staff, systematic teaching systems, standardized curriculum systems, and excellent industry resources. The alliance aims to upgrade the effectiveness, brand, and benefits, and become a comprehensive kindergarten and standardized child rehabilitation center with integrated education capabilities. It provides guarantees in talent and teaching staff, curriculum development, teaching and research, teacher ability improvement, institutional operation, and resource implantation, and transforms Bru's future professional strength into the development ability of kindergartens (regular schools), child care centers, and institutions.

3.1. Expected Technical Service Projects and Benefits for Product Testing, Process Improvement, Technology Research and Development, Etc

One is to provide one-on-one early intensive behavioral interventions. The second is to conduct research on the influencing factors and effects of EIBI intervention. The third is to continuously develop and promote the Professional Course for Children's Behavioral Intervention Rehabilitation Practitioners. The course aggregates domestic and foreign industry experts and scholars, teaching content related to child behavior intervention from multiple perspectives such as applied behavior, education, linguistics, psychology, and biomedical science. To create a discipline system and practical foundation for autism rehabilitation education for students from multiple perspectives and all-round perspectives, with the aim of effectively improving the professional level and practical ability of autism rehabilitation teachers. At the same time, with the full help of the Internet, we creatively online the practical skills training and build a large-scale professional, standardized and systematic talent training system.

3.2. Objectives and Plans for Improving Management System and Mechanism

The preliminary formation of the Bru Future Special Education Industry College's promotion model and cooperation paradigm has explored mature cooperation paths and mechanisms in enterprise talent cultivation, faculty construction, professional core curriculum and resource development, talent training program formulation, and campus productive training base construction. [1] The ultimate goal is to achieve three core goals: significant talent cultivation and more abundant high-quality employment; Empowering teachers to grow and achieving significant results in professional development; The radiative driving effect is prominent, forming a demonstrative and promotional value. To this end, the following plan is formulated:

3.2.1. Improve Organizational Structure and Ensure Organizational Support

Firstly, a tripartite collaborative school enterprise cooperation committee was established with "school enterprise student" as the core. Schools, as the core force of education, continuously adjust and optimize their professional curriculum based on the prediction of the talent market, guided by job skill requirements, reconstruct the curriculum system of higher vocational education, and actively strengthen the construction of practical training bases to form a complete practical teaching system. Enterprises, as leaders in industrial practice, closely cooperate with schools, jointly participate in the decision-making and implementation of the school enterprise cooperation committee, formulate, revise, and implement cooperative education plans. By jointly building practical training bases, we ensure seamless integration between teaching and practical work, theoretical learning and practical operations. Students, as beneficiaries of education, will play a dual role as both students and apprentices in this mechanism, enjoying the benefits brought by their dual identities.

In addition, the school and enterprise will jointly establish a professional advisory committee. To ensure close contact and efficient communication between the school and enterprise, we will also establish a dedicated school enterprise cooperation liaison mechanism to provide solid organizational support for the sustained and healthy development of school enterprise cooperation.

3.2.2. Establish a Sound Institutional System and Build a Cornerstone for Cooperation

Schools and enterprises have jointly formulated a series of management systems aimed at guiding the orderly implementation of school enterprise cooperation projects. These systems not only standardize the specific processes and standards of cooperation, but also ensure the clarity and implementation of responsibilities between both parties. Through the establishment and implementation of these systems, we aim to provide a solid institutional guarantee for school enterprise cooperation, ensure the smooth progress of cooperation between both parties, and promote the sustainable development of cooperation projects.

3.2.3. Optimize the Educational Environment and Strengthen Practical Training Support

In order to comprehensively improve the quality of education and practical abilities, we are committed to improving the educational environment and training system. In terms of educational environment, we pay special attention to the construction of production practice environment.
Through the teaching and internship base of the special needs industry college, we have successfully integrated the talent cultivation of the school with the actual operation of the enterprise, providing solid support and unique advantages for the "engineering learning combination" talent cultivation model of vocational colleges. At the same time, we are also committed to optimizing the teaching environment to ensure that students learn in a real work environment and enjoy comprehensive educational facilities and resources during the teaching process. This dual advantage enables students to not only master practical skills, but also cultivate excellent professional qualities.

We have taken various measures in the construction of the practical training system. Firstly, we have established an integrated classroom for special needs education to ensure that practical training and teaching can closely revolve around the teaching plan, with a focus on strengthening student ability development. Secondly, we have built a fully functional training base to provide students with a real professional environment, focusing on improving their hands-on ability and technical proficiency. Strive to provide students with high-quality educational resources and practical platforms to help them achieve comprehensive development and future success.

3.2.4. Strengthen Financial Support and Promote Model Innovation

To ensure the smooth progress of the practical training base project of the school's industrial college and the continuous innovation of talent cultivation models, the school attaches great importance to the improvement and increase of funding investment. In response to the construction and development of industrial college bases, the school has specially formulated a series of funding investment mechanisms and increased funding support.

Firstly, the school will use special funds to support the professional construction of the industrial college base. This includes not only the updating and upgrading of teaching equipment, but also the development and optimization of professional courses to ensure that the knowledge learned by students is closely aligned with industry needs. Secondly, the school has also provided sufficient financial support for the construction of the teaching staff. By introducing excellent teachers, providing training opportunities, and establishing incentive mechanisms, the school is committed to cultivating a high-level teaching team and providing a solid teaching force for the industrial college base. In addition, in order to promote the reform of talent cultivation models and institutional mechanism innovation, the school has also established special funds to support pilot projects. These projects aim to explore talent cultivation methods that are more in line with industry needs and social development, providing useful reference and inspiration for school teaching reform.

By increasing funding and improving investment mechanisms, the school will effectively ensure the smooth progress of the Industrial College Training Base project and promote the continuous innovation and development of talent cultivation models. This will lay a solid foundation for the school to cultivate more high-quality and skilled talents.

References

