Research and Practice of College Education System

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Abstract—To serve the society and economy of Jilin Province "three rural" development as the purpose and to respond to major national strategic needs for the ultimate goal brings together universities, local governments and enterprises tripartite forces to build a “multi-dimensional” cooperative education man system. Multidimensional refers to talent training for combining site, the coordination and cooperation with local governments and enterprises; Stereo refers to students all-round development as the goal, students' knowledge, ability and quality of three-dimensional, coordinated development. The system is driven by joint training, motivation, and diverse interactive stereoscopic structure of three kinds of mechanisms to support, in Jilin agricultural university. The practice of the implementation of the past five years has made obvious effect, and formed three types of six practice patterns.

Keywords—Universities; talent cultivation; research

With the reform of higher education deepening innovative training model to improve the quality of personnel training colleges and universities has become a very important and urgent task. School education to break the single-mode, and actively integrate social resources to mobilize, to adapt to local economic development to explore new demands education system, has increasingly become an inevitable choice of local university. The cooperation between university and local governments, enterprises still exist on unstable platform, personnel training in colleges and universities and teachers governments and enterprises practice skills training for joint training, motivation, and the motive mechanism is not sound, the government and enterprises to participate in college talent cultivation depth and a series of problems. To solve these problems, this group formed in 2010, and other aspects of personnel training mode and mechanism and begin to implement the program in 2011 the research group in 2010 in the aspects of talents training mode and mechanism of the formation of the program in 2011 and began to carry out school enterprise cooperation mode was improved after 6 years of research and practice, formed for the local colleges and universities "multidimensional" education system.

I. IN TALENT TRAINING FOR COMBINING SITE, ESTABLISH COLLEGES AND UNIVERSITIES, THE LOCAL GOVERNMENT AND ENTERPRISE COLLABORATION MODEL

Talent cultivation is the fundamental task of colleges and universities, the local government has the demand for university education and talent of macro management and control functions, enterprise is the main employment of college graduates training quality and source of feedback, the university is among the three main local government and cooperative enterprises, the combining site is talent cultivation. Based on the above universities and local governments, between enterprises to build a base (special type of school, type of school and enterprise, science and technology demonstration zone type), shared resources (space, funding, research and development equipment, production environment, scholarships, scientific research platform, senior experts professor, etc.) to implement cooperative education cooperative mode.

First, build the base. Base on campus as the main body through the cooperation between colleges and schools, build "three types, progressive type" practice teaching base. The campus special base mainly focus on professional knowledge, basic operation skills training; University-enterprise joint base mainly based on cultivating students ability to solve practical problems; Science and technology demonstration YuanOuXing base mainly undertakes comprehensive operations of different stages and different professional practice and ability of students to a variety of tasks such as comprehensive exercise. Three types of base function to cover the whole process of students, at the same time for the enterprise of science and technology research and the government support agriculture science and technology to provide effective carrier.

Second, the Shared resource. Local governments, enterprises provide places, capital, research and development equipment, production environment, scholarships for school personnel training; School scientific research platform, senior experts and professors to provide support for enterprise technology research, provide advisory guidance for local economic and social development.

Third, the cooperative education. On the one hand, local governments and enterprises practice skills training for personnel training in colleges and universities and teachers provide platform and opportunity, enterprises appoint students to take courses, teaching or participate in practice activities; Colleges and universities, on the other hand, for enterprise
training employees, for local government to develop village cadres and technical backbone.

Fourth, cooperation advisory services. Schools and local government cooperation study on regional economic and social development, provide consulting service for the local government decision-making; School, business and enterprise jointly set up platform, carry out employment, start-ups incubation; Schools to set up expert courtyard, popular science freak show, new countryside hotline, support and services.

II. TO THE OVERALL DEVELOPMENT OF STUDENT AS THE GOAL, TO BUILD THE KNOWLEDGE, ABILITY, QUALITY THREE-DIMENSIONAL COORDINATED DEVELOPMENT OF EDUCATION MODE

A. Build a "three-pronged, three-level, five-platform" practice teaching model based on overall development of students.

"Three-pronged" - combined with scientific research platform and projects, so that students early into the research team, to accept the scientific research training; Combination of technology innovation and entrepreneurship training program to enhance students' ability and creative spirit; Combined with employment fairs, internship demand negotiations with the employer.

"Three-level", the first level, the entrance is contact practice mainly on cognition and basic practice; The second level, through the integration of multiple courses and designing a comprehensive, integrated part of the training; The third level, joined the team to participate in practical training.

"Five-platform" - a personalized platform provides practical courses for different types of professional and student learning phase, scientific and technological activities and research training platform, the platform of social practice, discipline competition platform, simulation business platform.

B. Build a diversified evaluation system.

Evaluation by the teacher on the subject into a single subject teachers + corporate officers (farmers) + + student team members jointly own body; On examination content from the memory into a knowledge assessment analysis and problem solving skills composition; On assessment methods by the end of the examination into formative assessment by a test into a test to achieve more knowledge, ability and quality of comprehensive assessment and evaluation.

III. IMPROVEMENT COUNTERMEASURES BUILD A SUPPORT MECHANISM "MULTIDIMENSIONAL" EDUCATION SYSTEM

A. Cooperative education mechanism.

Experts from the business part-time practice teaching guide mentors joint practice teaching, using its own enterprise with two different environments and educational resources on campus culture and education to take a combination of campus culture. The enterprise is one of the main emerging talent cultivation and the cultivation of certain cost and burden to provide distance teaching and practice of employment system.

B. Power drives mechanism.

Constituents in their respective stable and long-lasting source of power demand. Universities in educating people realize synergies personnel training to improve the quality and optimize team structure, access to funding and implementation achievements, etc; Get in line with local government to achieve economic and social development needs of talent in collaboration among education, access to training and local officials to improve the quality of the platform and resources; Cooperative education among enterprises to achieve cost reductions, new product development, technical support and so on.

The three party to form the achievement and risk sharing community for drive. Universities, local governments and enterprises to provide active support and cooperation of all parties lasting help, formed a sharing of results, sharing the interests of the Community.

Three parties in order to establish a long-term mechanism for the protection of the cooperation mechanism. Tripartite cooperation by all kinds of base signed a cooperation agreement to institutionalize cooperation, scientific, standardized, and long-term oriented.

C. Multiple interactive mechanism

Establish feedback mechanism between schools and enterprises. Demand for qualified personnel and the quality of feedback information through the enterprise to adjust training program to promote the professional disciplines to adapt Combination cooperative education needs, cultivate adapt to social and regional development needs of high-quality personnel.

Establish the depth of government enterprises to participate in personnel training mechanism. Companies involved in research and development of training objectives, lesson plans, teaching content and training methods, deeply involved in the training process.

Establish exchange mechanism between school and local government and enterprises. By enterprises to set up teacher and student teaching awards (scholarships), innovative research and development projects to promote school-enterprise, school exchanges.

D. Course follow-up mechanism

In recent years, the school through the teaching of undergraduate course project ", "teaching quality promotion project", "basic course teaching reform project", "quality promotion course development plan" and so on many engineering and project implementation, mix, actively advancing with The Times and local construction conform course construction and reform.

First, the "undergraduate teaching project" for high-quality courses or course group construction. At all levels including course, excellent course, bilingual teaching demonstration course and our independent design demonstration course teaching mode and method reform.

Second, "teaching quality improvement project" for every link of curriculum implementation, including classroom
teaching, team construction, evaluation and incentive, environment and conditions, and many other factors affecting the quality of undergraduate teaching is targeted to improve and improve.

Third, the "basic course teaching reform project" in the school of public basic courses and part quantity bedding face is wide professional basic course as the object of construction, in order to realize the effective link between basic courses and professional courses, give full play to the basic course support function as the fundamental goal of training objectives, curriculum content, method, means and the inspection appraisal way, team training, improve the basis of construction contents of the course reform of the whole and improve project.

Fourth, the quality promotion course development program for the entire school mainly for the students of the diathesis developing course increases in the number, extension, flexible, open sharing, and quality improvement plan. Selection of encouraging measures to improve course number, it has been 2 per year per capita above the door, involving areas has been extended to literature, art, education and other non-agricultural major subject areas, additional experimental operation skills courses at the same time, take the teacher in class, the students' self-study, online learning, such as a variety of ways, open, a professor at the classroom, to promote high quality resources sharing, improving the quality of courses.

IV. POPULARIZATION AND APPLICATION EFFECT OF EDUCATION SYSTEM

A. The formation of three six typical practice mode

Based on school-enterprise cooperation, "College Board Mode", "Insurance Institute Anwar mode".

"College Board Mode", That is part of the school college and enterprises set up the board, through the improvement of personnel training, teacher training, technology services and other mechanisms, according to the constitution work. Currently, 58 units of directors to carry out scientific research projects over 60, 535 teachers to undertake the enterprise projects, corporate income of 7,000 yuan.

"Insurance Institute Anwar mode", That Jilin Agricultural University in cooperation with the insurance company was established Anwar Anwar Insurance Institute, co-founded and Infiltrating type, double-qualified teachers team, exchange of teachers and trainers undertake courses or exchange of learning tasks, by way selection priority to graduates.

Based on the school's cooperation "Antu mode", "folk model"  

"Antu mode", That Jilin Agricultural University and Yanbian Korean Autonomous Prefecture in Jilin Province Antu County People's Government signed a cooperation agreement County schools, transport a large number of technical personnel and administrative backbone, training and exercise practice innovation ability, the Antu county leaders and departments at all levels called "Antu mode" has been extended to multiple cities and counties around.

"Folk model", That demonstration zone and other projects relying on the establishment of research and demonstration bases in Songyuan City Ningjiang Dawa town folk village. Since 2001, more than experts and professors and students to the village to carry out in-depth services, gave birth to the "export red pepper, green millet, Vegetable Corn, high-quality cashmere goose meat, vegetable facility" five dominant industries.

Based on school-enterprise cooperation to "experts compound mode", "agriculture science and technology service station Mode"

"Experts compound mode", That is about the development of Jilin corn, soybeans, livestock and specialty characteristic economy, different schools in the province in the Industrial Zone Spark Expert ' in the province has established 29 agricultural demonstration zone, 35 Spark expert workshop, organized more than 50,000 teachers and students into the countryside, agricultural production, promote the development of rural economy.

"agriculture science and technology service station Mode", That group of University organization in support of local government, business and industry to establish a mutually beneficial and win-win mode of construction, the school currently has more than 20 industries and enterprises in Jilin Province to establish a science and technology agriculture service stations, service effectiveness received wide acclaim .

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Overall quality of students has improved significantly, In recent years, nearly one hundred students to present research papers, patents 8; International and domestic competitions and provincial awards nearly 1000, including an international award, national award 72; Access to all levels "Top Ten Students" and the honorary title of nearly 5,000 people; to participate in social practice in more than 98% the proportion of "green" Youth Volunteers Association awarded the fifth "Mother River Award", created and launched by 53 IUCN Mother River College consisting of universities, their deeds are widely praised by the community.

Graduates widely praised by the community and the employer. The proportion of students admitted to master's degree of 17%, the employment rate has remained at about 90%, expanding the field of employment. Graduates professional adaptability, good moral character, real style, strong, quick, enough stamina "has become our graduates' tab." The school was named the top 50 colleges and universities employment.

Students' entreprenurial ability was significantly improved. Relying on the three countries to cooperate agriculture, science and personnel training bases and college campus practice education base, with the provincial government of Jilin Province jointly established Agri-Expo Garden, Qianguo racecourse, Sheling other bases, as well as the first batch of Jilin University Students Pioneer Park, hatching success more than one hundred business projects, 14
registered enterprises, number of students was named "top ten youth entrepreneurship Jilin pioneer."

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