The Research and Practice Base on Strengthening the Development of Science and Technology Service Platform to promoting Rural Revitalization

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Abstract. Rural revitalization industry is the foundation, talent is the rural revitalization key, science and technology is the guarantee. Taking the research and practice of jilin agricultural science and technology University to strengthen the science and technology service platform and boost the rural revitalization as an example, this paper expounds the function and actual effect of new application-oriented undergraduate colleges to strengthen the construction of science and technology service platform, and puts forward some useful experience for application-oriented undergraduate colleges to help the rural revitalization.

Introduction

In the report of the 19th CPC national congress, the CPC central committee with xijinping as the core proposed the implementation of the rural revitalization strategy in view of the prominent problems in China's current agricultural and rural development, and mapped out a grand blueprint for further promoting agricultural and rural modernization and building a moderately prosperous society in all respects. [1] To revitalize rural areas, industry is the foundation, talent is the key, and science and technology is the guarantee. In this battle to build a well-off society in an all-round way, what tasks agricultural colleges and universities should undertake and what roles they should play are questions that need our higher education workers to think deeply about. Strengthening the construction of science and technology service platform and improving teachers' ability of scientific research and innovation and social service are important measures for new undergraduate colleges to help rural revitalization strategy.

First, Strengthen the Construction of Science and Technology Service Platform and Improve the System of Agricultural Science and Technology Popularization

Talent is the key to strengthening agricultural modernization and implementing the strategy of rejuvenating the countryside. Current system of popularizing agricultural science and technology is the government-led, promotion of vertical administration system, [2] to a large extent depend on administrative intervention for popularizing agricultural science and technology, neither accords with the objective law of development of market economy, and against the desire of farmers engaged in agricultural production, but also there is a segmentation, production study research disconnectedness.

With the establishment and improvement of the socialist market economic system, the system and mechanism of the extension of agricultural science and technology can no longer meet the needs of the market economy, the development of modern agriculture and the objective needs of rural revitalization. A lot of universities are the source of innovation and radiation of knowledge, talents and information, which greatly promote the development of science and technology and the progress of society. Higher agricultural colleges in China after years of construction and development, the majority of university scientific research strength, advanced infrastructure, research methods, research and develop the agricultural science and technology and technology

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popularization and service has a unique advantage, is an important force in the China's agricultural science and technology system, service rural revitalization is duty-bound responsibility and obligation. In the process of building a well-off society in an all-round way and promoting agricultural modernization, universities should gradually move from the edge of society to the center of society, and The opinions of the CPC central committee and the state council on the implementation of the rural revitalization strategy stressed that scientific and technological talents should play a supporting role. In the whole system of agricultural science and technology, the extension and service of agricultural science and technology are the key links to realize the transformation of scientific and technological achievements, the important link to link teaching, scientific research and production, and the important means to promote the progress of agricultural technology and realize agricultural modernization. Higher agricultural colleges to strengthen science and technology service platform, is to take part in the agricultural technology extension service in the university as the breakthrough point, giving full play to the advantages of higher agricultural colleges scientific research and talent, strengthen the agricultural science and technology developing and popularizing agricultural science and technology, through higher agricultural colleges of science and technology personnel set test, demonstration base in the rural areas, guiding farmer, a model household, support rural economic cooperative organization and leading enterprises, establish expert courtyard, training farmers, agricultural science and technology innovation system and operational mechanism, the agricultural science and technology, new achievements and application of new technology directly in agricultural production and rural construction, so as to promote the rapid transformation of agricultural sci-tech achievements, Help revitalize the countryside. Therefore, strengthening the construction of science and technology service platform and science and technology service in agricultural colleges and universities is the improvement and supplement to the current system of agricultural science and technology extension in China.

Second, Enhance Teachers' Innovation Ability and Social Service Ability by Relying on the Construction of Science and Technology Service Platform

Rural revitalization needs a large number of high-quality application-oriented talents who know technology, management and application well. Newly-built undergraduate colleges are the main channels and positions to cultivate application-oriented talents. The goal of the newly-established agricultural universities is to cultivate production, management and service talents to meet the needs of modern agricultural development and rural revitalization. In addition to teaching, institutions of higher learning also shoulder the historical missions of scientific research, social services and cultural inheritance. There are three sources of teachers in newly-built undergraduate colleges and universities. The first part is the original teachers in junior college or higher vocational colleges transferred and transferred with the upgrading of the school. These teachers have strong practical ability, but weak scientific research ability and lack of innovation spirit and ability. The second part is the master's and doctor's graduates recruited from colleges and universities in order to rapidly expand the enrollment scale after upgrading. These teachers have strong theoretical basis, certain scientific research ability and innovation ability, but weak practical ability. Their ability to solve problems in production practice needs to be improved. The third part is the introduction of high-level talents or highly skilled talents from the society. It is obvious that these teachers have strong scientific and technological research and development ability or practical ability, as well as the ability to solve practical production problems. However, this part of the teachers accounted for a smaller proportion, fewer personnel. Therefore, it is a heavy task to improve teachers' innovation ability and social service ability. With the rapid development of science and technology, no matter what kind of teachers, with the development of science and technology, they need to continuously enhance their scientific research ability and social service ability through strengthening scientific research training or in-depth production and actual social service. Only when teachers' scientific research ability and social service ability are enhanced, can they nurture teaching, deepen the reform of teaching and education, and cultivate qualified talents urgently needed for rural

revitalization. Only when teachers' scientific research ability and social service ability are enhanced can they better promote the organic combination of production, study and research, solve the practical problems in agricultural production, and apply the latest science and technology to agricultural production practice. The school's scientific research service platform provides teachers with a place and conditions for scientific research, and can quickly improve the teaching ability of scientific research. The school's scientific research service platform provides convenient conditions for teachers to carry out social services, effectively promotes teachers' in-depth practice in agricultural production, and continuously improves their teaching, innovation and social service abilities in the process of social services. [3]

Third, Give Play to the Role of Science and Technology Service Platform to Facilitate the Research and Practice of Rural Revitalization

According to the opinions of the CPC central committee and the state council on the implementation of the rural revitalization strategy, rural revitalization and industrial prosperity are priorities. We must promote quality and green agriculture, follow the supply-side structural reform of agriculture as the main line, accelerate the establishment of a modern agricultural industrial system, production system and operation system, improve agricultural innovation, competitiveness and total factor productivity, and accelerate the transformation from a major agricultural country to an agricultural power. To ensure industrial prosperity, we need to consolidate the foundation of agricultural production capacity, ensure national food security, and ensure that the rice bowl of the Chinese people is firmly in our hands. Accelerating the development of a national agricultural science and technology innovation system, strengthening the construction of science and technology innovation bases for the whole industry, and deepening the transformation, popularization and application of agricultural science and technology achievements are important measures to revitalize the industry. We will implement the strategy of invigorating agriculture through quality. That is to establish and improve the quality evaluation system, policy system, work system and assessment system. We will make agriculture greener, better, more distinctive and better branded, adjust and optimize the distribution of agricultural productive forces, and shift agriculture from being production-oriented to quality-oriented. The construction of modern agricultural industry system, production system and management system is the "three pillars" of developing modern agriculture and realizing agricultural and rural modernization, and is an important carrier of promoting the integrated development of the first, second and third industries in rural areas and rural revitalization. To build a modern agricultural production system, we need to change the way agricultural input factors are used, transform traditional agricultural production methods with biotechnology, information technology and modern equipment manufacturing technology, improve agricultural mechanization, it application, improved varieties and standardization, improve the quality and economic benefits of agricultural products, and enhance agricultural competitiveness. Modern agricultural management system is a agricultural management main body, management mode and the organic combination of socialization service system, including the family management, cooperation management, collective management, enterprise management, and other forms, is the measure of modern agriculture, scale, and organizational socialization, marketization and the important symbol of professionalism, the key is to solve the effective collocation of the productive forces and the productive relations, enhance market competitiveness. To build a modern agricultural operation system, we need to develop various forms of operation on an appropriate scale, deepen the reform of the rural land system, promote the professional development of farmers, and raise the level of intensification, organization, scale and socialization of agricultural operations. The three systems of modern agriculture complement each other. Agricultural industry system as the main body, agricultural production system and agricultural operation system as the two wings, the agricultural industry system plays an important role in support and guarantee. [4]The construction of the three major systems of modern agriculture is in urgent need of higher agricultural education to cultivate a group of high-quality application-oriented and inter-disciplinary talents who understand technology, know management and good operation and have the ability to innovate and

start businesses. Jilin province is a big agricultural province. Agriculture, rural areas and farmers play a very important role in economic and social development. It is of great significance to cultivate high-quality application-oriented talents to meet the needs of modern agricultural industrial system, production system, operation system construction and related industrial transformation and upgrading.

In order to improve power the ability and level of rural school, jilin institute of agricultural science and technology in-depth implementation of the nineteenth spirit, adhere to xi jinping, the new era of socialism with Chinese characteristics as guidance, firmly establish a new development concept, the implementation of the demands of the development of high quality production teaching fusion, university-enterprise cooperation is applied talents training school road, according to the needs of modern agricultural industry system construction adjust professional structure, strive to build a "practice teaching, cooperative education, employment, entrepreneurship and social services, collaborative innovation" five teaching and technology service platform, for the talent training and technology service rural revitalization strategy provided safeguard. [5]

The first is a strategy of rejuvenation is closely around the country, insist on production-study-research cooperation, deepen the integrate agriculture, according to the three big system construction and the pillar industry in jilin province, characteristic industry and strategic emerging industry development needs, adjust the professional structure, build the planting, breeding, processed agricultural products, Chinese medicine pharmaceutical, agricultural engineering, biological technology, information technology, economic management class eight professional group, through biotechnology, information technology and intelligent manufacturing and other modern science and technology to upgrade the existing agricultural professional, service "Internet + modern agriculture", creative agriculture, leisure agriculture and rural tourism, forest health development of new industries such as new forms, Construction of a number of emerging agriculture-related professional. In line with the new requirements for the integrated development of primary, secondary and tertiary industries in rural areas, we should accelerate the training of compound application-oriented agricultural and forestry talents, and highlight the pertinence and practicality of talent training

The Second is according to the group of planning and construction of disciplines teaching, scientific research and social service platform, with key laboratory, experimental teaching demonstration center, engineering research center, agricultural products processing, food testing center, provincial scientific research platform for the tap maximize the integration of teaching resources, building function and intensive, resource sharing, open fully, operation and efficient professional or cross major platform for teaching and scientific research, the construction of 20 sets of teaching, scientific research, college students' innovation base for teaching and scientific research and social services in the integration of campus, better meet the applied talents training and teachers' teaching and scientific research ability training, strive to cultivate students' practice ability and innovation ability. The school teaching and research base has been established as the national science popularization education base (2010), jilin provincial spark training base (2012), national food nutrition education demonstration base (2015), jilin university students' practical innovation and entrepreneurship education base (2016) and the first batch of national new professional farmer cultivation demonstration base (2017).

The third is to lead the establishment of jilin agricultural vocational education group, each college has set up a school-enterprise cooperation council, the establishment of the enterprise personnel involved in the teaching steering committee. Each professional group has more than 10 large and medium-sized enterprises with deep cooperation as stable off-campus practice teaching bases, focusing on cultivating students' professional ability and entrepreneurial ability. University-enterprise cooperation professional achieve full coverage to ensure that industry enterprise comprehensive, whole process involved in the school teaching management, professional construction, course construction, talent cultivation and quality evaluation, the "teacher complementary, base building, hand in hand to innovation, women talents, employment entrepreneurship" and so on to achieve mutual benefit and win-win, promote school running pattern

transformation.

The Fourth is a school with jilin agricultural university, changchun university of Chinese medicine, jilin academy of agricultural sciences, Chinese academy of agricultural sciences' institute of specialty, both universities and colleges, scientific research institutes cooperation, established the cooperative innovation center, schools play a provincial key laboratory, collaborative innovation center, production engineering center, ginseng high-end platform and the department of agriculture agricultural products processing sub-center of "collaborative innovation" platform technology advantage, [6] In animal breeding, major disease prevention and control, crop breeding, crop high yield cultivation techniques, cultivation of Chinese herbal medicine, and genetics and breeding, biotechnology applications, Internet + agriculture, agricultural iot, deep processing of agricultural products, food safety, for such applications as biomedical research, and technology research and development center, provide support for teachers and students of science and technology innovation.

The Fifth is the university establishes a batch of employment and entrepreneurship bases in agriculture-related enterprises, strengthens college students' employment guidance and services, and supports graduates' employment and entrepreneurship in their hometowns. In cooperation with bright media, provincial and municipal departments of human resources and social security, etc., the college students' innovation and entrepreneurship platform is established to provide conditions and guarantees for college students' entrepreneurship. At the same time, the school's practice teaching, collaborative education, collaborative innovation and other platforms are used to carry out innovation and entrepreneurship education, so as to make the innovation and entrepreneurship education of college students come true. In 2016, the university was established as an innovation and entrepreneurship base for college students in jilin province.

Summary

The school cooperates with more than 20 cities, counties and districts in the province to build a wide range of "social service" platform for teachers and students. School support relying on a subject, professional and technical personnel to form a team, select a project, service a villages and towns, and form a kind of "talent training and training, and promotion of scientific and technological innovation, information and technology service," the trinity of social service model, the potential of technology advantage into realistic productivity, promote the transformation of agricultural scientific research pioneered in province, the newly built undergraduate course colleges and universities increased social service ability. In recent years, agricultural science and technology personnel training, rural grassroots cadres, raising large family of more than 50000 people, of radiation driven farmers more than 30, ten thousand, by the agricultural organizations at the grass-roots level, technology promotion department, leading enterprises, radiating and driving farmers breeding large, constantly improve the technological and cultural quality of farmers, promoting agricultural transformation of scientific and technological achievements, for the modern agriculture and rural revitalization provides a strong support and technical services. In 2017, the school was identified by the ministry of agriculture as "the first batch of national new-type professional farmer cultivation demonstration base."[7].

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