

# Innovation and Practice of Food Processing Technical Personnel Training Mode under the Background of Rural Revitalization

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**Abstract:** With the implementation of China's rural revitalization strategy, food processing industry, as an important part of rural economy, plays a key role in promoting the integration of three industries, increasing farmers' income and rural development. However, under the background of rural revitalization, the training mode of food processing technical talents is facing many challenges and problems, which need to be innovated and practiced urgently. This paper aims to study the innovation and practice of food processing technical personnel training mode under the background of rural revitalization, explore how to adapt to the needs of rural revitalization, train more high-quality food processing technical personnel, provide talent support and impetus for rural revitalization, and promote the development of rural economy.

**Keywords:** Rural Revitalization; Food Processing; Technical Personnel

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Rural revitalization is an important strategy for China's economic development and an important path to achieve comprehensive rural revitalization. As one of the key industries of rural economy, food processing undertakes the important task of processing agricultural products, promoting farmers' income and promoting rural development. However, there are some problems and challenges in the current food processing technology personnel training model, and the gap between demand and supply is gradually emerging. With the continuous progress of science and technology and the transformation and upgrading of society, the traditional training mode has been unable to meet the needs of rural revitalization, and innovation and practice are imminent.

## 1. The Background and Significance of Rural Revitalization

### 1.1 The significance and objectives of the rural revitalization strategy

The rural revitalization strategy is an important strategy proposed by the government in recent years, which aims to realize the comprehensive revitalization of the countryside and promote the sustainable development of the rural economy and society<sup>[1]</sup>. Rural revitalization has important significance and goals: Firstly, rural revitalization is an important way to achieve high-quality growth, which can promote the development of rural economy and improve the income level and quality of life of farmers. Secondly, rural revitalization can promote the integrated development of rural primary, secondary and tertiary industries, and promote the upgrading and optimization of rural industrial structure. Thirdly, rural revitalization helps to realize the coordinated development of urban and rural areas, reduce the gap between urban and rural areas, and achieve comprehensive social progress and common prosperity.

### 1.2 The need of Rural revitalization for food processing technology

With the continuous improvement of people's living standards and the upgrading of consumption, the requirements for food quality and safety are getting higher and higher. Food processing technology is an important means to ensure food quality and safety. Food processing and storage technology can be improved to extend the shelf life of food, and reduce food waste<sup>[2]</sup>. In addition, food processing technology can also increase the added value and profit margin of food, and provide more efficient, more refined and greener solutions for the processing of rural agricultural products.

### **1.3 The urgency of food processing technical personnel training under the background of rural revitalization**

At present, the role of food processing industry in rural economy is increasingly prominent, but there are many problems in the existing talent training model. On the one hand, the traditional cultivation mode is difficult to meet the requirements of food processing technology in the new era, and it is lack of forward-looking and scientific. On the other hand, there is a mismatch between the professional training of food processing technology talents and the needs of enterprises, and the cultivated talents are difficult to meet the needs of rural revitalization. Therefore, the urgency of food processing technical personnel training under the background of rural revitalization is reflected in the following aspects: Firstly, the scientific personnel training model can provide high-quality talents in line with the requirements of The Times, and promote the implementation and development of rural revitalization. Secondly, according to the needs of the food processing industry, training more innovative and experienced food processing technical personnel can meet the market demand for highly skilled personnel and promote the development and growth of the food industry. In addition, strengthening the training of food processing technical personnel is also conducive to improving the added value of agricultural products, promoting the increase of farmers' income and the development of rural economy.

## **2. The Problems and Challenges of the Current Training Mode of Food Processing Technical Personnel**

### **2.1 The existing talent training model**

At present, the cultivation of food processing technical personnel mainly adopts the traditional education and training mode. Students undertake theoretical studies in food science or related majors in institutions of higher learning, acquire theoretical knowledge and basic skills, and do internships or practical training to improve practical ability before graduation. In addition, some training institutions also offer short-term training courses to help staff increase their technical knowledge and skills.

### **2.2 The problems and shortcomings of the existing model**

There are some problems and deficiencies in the existing training mode of food processing technical personnel. Firstly, students pay too much attention to the teaching of basic knowledge in theoretical learning, and lack of practical ability. The importance of practical experience for food processing technical personnel is undeniable, but the existing training model often ignores this point. Secondly, existing models are not sufficiently aligned with business needs. In the traditional mode, the participation of enterprises in talent training is not high, which leads to the difficulty of training talents to meet the needs of actual work. In addition, due to the rapid development of the industry, the update speed of the existing model is slow, and it cannot keep up with the development of new technologies and changes in market demand.

### **2.3 New needs and challenges of talent training under the background of rural revitalization**

Under the background of rural revitalization, the training of food processing technicians faces new demands and challenges. Firstly, with the promotion of the rural revitalization strategy, the rural food processing industry will usher in development opportunities and challenges, and the demand for high-quality food processing technical personnel will increase significantly<sup>[3]</sup>. While the traditional training mode is difficult to meet the growing demand, the new training mode needs to pay more attention to the cultivation of practical ability and innovative spirit. Secondly, in the transformation and upgrading of the rural economic structure, the technical level and innovation ability of the food processing industry will become the key factors for rural revitalization. Therefore, the talent training mode also needs to pay more attention to cultivating students' innovative spirit and practical ability, and improve their ability to solve practical problems and respond to market challenges.

## **3. Innovation of Training Mode of Food Processing Technical Talents under the Background of Rural Revitalization**

### **3.1 Principles and directions of innovation**

In the context of rural revitalization, the training model of food processing technology personnel needs to be innovated in accordance with the following principles and directions:

**Comprehensive quality training:** It pays attention to the cultivation of students' practical ability, innovation ability and comprehensive quality, and cultivate talents with engineering practice and market competitiveness.

**Joint training mode:** It needs to promote the cooperation of universities, enterprises, governments and other relevant parties, establishes the training mode of school-enterprise cooperation, and realizes the close combination of theory and practice.

Integration of production and education:It closely combines education with industrial needs.Through the participation of relevant enterprises in talent training,it is to ensure that the cultivated talents can meet the needs of rural food processing industry.

Innovative spirit cultivation:It is to cultivate students'innovative thinking and innovative ability,and guide them to create and apply new technologies,new products and new models in the field of food processing technology.

### **3.2 Innovative scheme of talent training mode based on modern science and technology**

Innovative scheme of talent training mode based on modern science and technology can take the following measures:

Introduction of virtual reality(VR)and augmented reality(AR)technology:The use of virtual reality and augmented reality technology to simulate real food processing environments make students carry out real practical operations to improve their practical skills.

Establish an online education platform:The use of Internet technology to establish an online education platform is to provide online courses,experimental platforms and practical guidance for food processing technology majors,so that students can learn and practice anytime and anywhere.

Introducing intelligent equipment and processes:Introducing advanced intelligent equipment and processes can allow students to improve their technical level and application ability through practical operation of these equipment and processes.

Carrying out industry-university-research cooperation projects:Colleges and universities cooperate with food processing enterprises and scientific research institutions to carry out food processing technology innovation research projects,allowing students to participate in them and gain practical experience and innovative thinking.

### **3.3 The cooperation mechanism and the responsibility division among government,universities and enterprises**

In order to promote the innovation of food processing technical personnel training mode under the background of rural revitalization,it is necessary for the government,universities and enterprises to establish a cooperation mechanism and the responsibility division:

Responsibilities of the government:The government should formulate relevant policies to promote cooperation among universities,enterprises,scientific research institutions and other parties,provide policy support and investment,and promote the innovation and development of talent training models.

Responsibility of colleges and universities:Colleges and universities should strengthen cooperation with enterprises and industries,adjust curriculum Settings,improve practical teaching and innovation ability training,and provide more practical opportunities and practical platforms for students.

The responsibility of enterprises:enterprises should actively participate in the training of talents,provide internship positions and practical opportunities,guide students to carry out practical operation and innovative practice,and provide support and guidance for students'employment.

Common responsibility of all parties:the government,universities and enterprises should jointly formulate talent training plans and objectives,cooperate closely,and jointly promote the innovation and practice of food processing technology talent training model.

## **Conclusion:**

The innovative talent training model can better adapt to the needs of rural revitalization,train more high-quality food processing technical talents,and provide important support and impetus for the development of rural economy.However,there are still some difficulties and problems in the process of innovation and practice,which require the joint efforts and cooperation of the government,universities and enterprises to solve.The government should strengthen policy support and financial input,encourage colleges and universities to carry out social practice and in-depth cooperation between industry,university and research,and improve the pertinence and practical effect of talent training.At the same time,colleges and universities should strengthen cooperation with enterprises,carry out innovative exploration of talent training mode,and improve students'practical ability and professional quality.

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