



# Research on Information Technology of Vocational Education Based on 5G Era

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**Abstract.** 5G communication technology has the advantages of Super bandwidth, ultra-low delay and ultra-high transmission rate, which will bring epoch-making changes to the education mode of vocational education. Online teaching will become more popular, and classroom teaching mode will change or flip. Virtual reality technology will be widely used in teaching activities, big data, cloud computing and artificial intelligence will play a greater role in personnel training, cloud training will be more popular. Under the background of 5G era, industry cross-border integration has become an important trend of development. At the same time, the iteration of new and old posts and the cross-border cooperation of professional and technical personnel have become inevitable. The reform of these new formats is the current vocational education. We must accelerate the reform, adapt to the development requirements of the 5G era, vigorously develop vocational education with the help of 5G technology, and actively respond to various challenges in the 5G era. This paper mainly analyzes the changes of new formats in the 5G era, the challenges faced by future vocational education in the 5G era, and the application strategies in vocational education.

**Keywords:** 5G era · Vocational education · Information technology · Challenge

## 1 Introduction

Modern vocational education is a type of education that adapts to the new demand of labor force for large-scale machine production [1]. Every technological innovation undoubtedly leads to changes in the production process. In order to play its role, vocational education must cooperate with technological change [2]. On April 20, 2020, the national development and Reform Commission officially defined that 5G construction will be included in the scope of national new infrastructure construction, and the development of 5G technology has entered the “high-speed lane”. 5G has become the leader of mobile communication technology in the new era. 5G technology will effectively support the wide application of artificial intelligence, Internet of things, big data and other technologies, and promote the social and economic development to produce revolutionary changes. From the perspective of the development of modern information, 5G technology has built a digital highway for the development of science and technology, become an important information channel for the development of big data, Internet of

things and artificial intelligence, and have an important impact on the social operation and management mode, business mode and education mode. How to make full use of big data, Internet of things, 5G communication, cloud computing and other modern high-tech means to realize the intelligent release in the field of education, including higher education, is a new topic for education in the current intelligent era.

## **2 The Influence of 5G Era on the Change of New Business State of Economy**

The thrust of China's high-quality economic development is mainly technological progress and industrial structure adjustment. The higher the level of economic development, the greater the contribution of advanced technology and reasonable industrial structure to economic quality development [3]. As a representative of the new generation of communication technology - 5G, the application level is its key value. Through the empowerment of 5G technology, the promotion of emerging technologies can be realized, and the production organization mode of existing industries can be changed. In general, 5G will bring new business forms from the development of industrial system, the structure of job market and the mastery of labor skills.

### **2.1 The Cross-border Integration of Industries is Gradually Deepened, and the Development Trend is Systematic**

All links in the industrial chain will be effectively integrated. The integrity and health of the industrial chain is an important factor to ensure the sustainable development of an industry. Under the development of 5G era, the integration of industrial chain has become an important development trend in the future. Under the development mode of big data technology + platform, great development and change have been made in terms of technology algorithm and computing power, which promotes the convergence of industrial chain, provides accurate basis for information prediction, and realizes the aggregation of production factors. The production mode will change from standard scale production to individual scale production. With the gradual maturity and application of automation technology, machines can replace human resources in more production processes. Standardized and large-scale product production and service greatly improve the production efficiency. However, the bottleneck of technological development also makes it difficult to realize flexible production in the process of machine replacement. Manpower is gradually replaced by automation technology to improve production efficiency [4]. The advent of 5G era improves the reliability and security of the network, realizes the breakthrough in technology, and realizes the intelligent development of production services. Finally, the space expansion is realized in the cross-border industrial cooperation, the technical means in production directly affect the organization mode, the role of workers in production has changed, and the development of cross industry, cross specialty and cross post organization is obvious. The practice around the application level of 5G technology needs to be completed by cross-border teams with different professional and technical backgrounds. For example, the media industry injected with new technologies such as VR and AR needs not only media design talents, but also relevant 5G technology application talents to develop media resources on VR and AR equipment.

## 2.2 The Iteration Speed of New and Old Jobs is Fast, and the Employment Structure Continues to Be Advanced

The coming of 5G era will inevitably affect the situation of the employment market, which needs to adapt to the development of new industries. 5G era promotes the change of new and old jobs. Through technological innovation driven reform, the development of technology develops to the direction of technology and capital intensive, leading to the disappearance of labor-intensive personnel advantages, and more and more workers are facing job transfer or unemployment. With the destruction of technology to the market, the market will be further compensated. New technology will promote the development of products and promote the rise of new jobs. However, the development of 5G technology will further expand the innovation space and eliminate the adverse effects of the employment market. Therefore, modern vocational education needs to seize the current employment development opportunities and do a good job in personnel training. At the same time, the employment structure of labor force continues to be advanced. With the development of automation technology, machines gradually replace the regular labor activities based on physical strength with the advantages of high efficiency and accuracy. With the effective support of 5G technology for artificial intelligence, big data and other emerging technologies, machines can continuously interact with information and data, flexibly “judge” according to the gap between the goal and the status quo, and independently take corresponding measures, and regular intelligent activities will be gradually replaced. With the development of 5G technology, it plays an effective supporting role in big data, artificial intelligence and other technologies, and needs to make flexible judgment on education in combination with modern information development goals [5]. In addition, the current employment of the labor force presents two choices: on the one hand, the lower compatibility of human capital is relatively strong, and the talent capital is reduced; On the other hand, under the influence of vocational training, talent capital has been effectively improved, and vocational colleges need to transfer to the position of human capital demand to further promote the promotion of human capital value. It can be seen that the huge gap of high-quality labor force and the expansion of industrial demand for high-quality labor force brought by technological development force the labor force to actively improve human capital and gradually squeeze to the middle and high-end labor force, so as to realize the synchronous upgrading of China’s labor employment structure and industrial structure.

According to authoritative national statistics, the new generation of information technology industry will face considerable talent demand and the most severe talent shortage in the next few years, requiring a large number of relevant professionals to join. The new generation information technology industry is one of the ten key areas of the made in China 2025 strategy. People.com reported that the talent gap of 5g technology in China will reach 20 million in the future. From 2020 to 2025, the economic output directly and indirectly driven by 5g commerce will exceed 35 trillion yuan. 5g will give birth to new information service posts such as industrial data analysis, intelligent algorithm development and 5g industry application solutions, and cultivate a flexible employment model based on online platform. While 5g is fully commercial, it also creates huge financial and a large number of employment opportunities for the society (see Fig. 1).

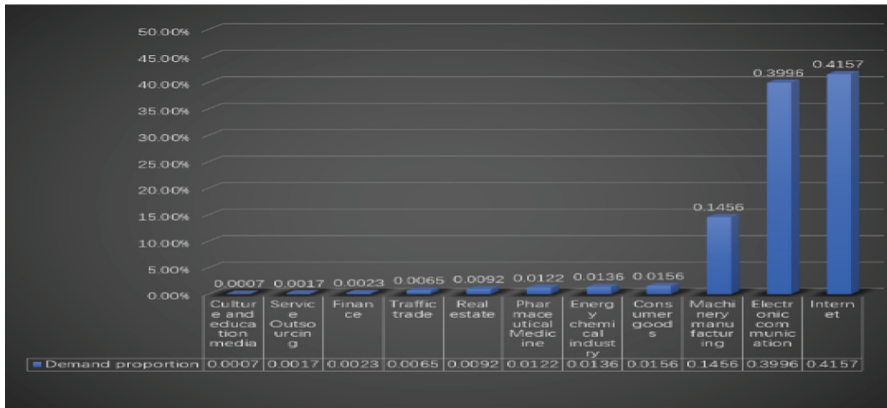


Fig. 1. 5G industry talent demand distribution

### 2.3 The Boundary of Professional Technology Has Been Strengthened, and Cross Team Cooperation Has Become the Norm

With the improvement of the industrial structure, the employment situation of the labor force is constantly optimized, and the technical level is backward, which leads to the disharmony between the industry and the employment structure. 5G technology as a revolutionary technology, compared with other benign technology, will promote the revolutionary change of economic lifestyle. In order to ensure the scientificity of personnel training, it is necessary to take information technology literacy as an important core literacy according to the future career development of 5G era, and actively respond to the modern revolutionary technological change. Compared with the traditional technology situation, it plays an important role in promoting economic development. 5G technology gradually presents a multi field development mode. On the one hand, talents engaged in 5G technology field must have the ability of network planning, mobile communication, big data and other diversified technology modules. On the other hand, technology needs to be combined with skill driven way to enhance the production value. Industries and posts related to 5G technology need to deeply understand the principle of posts. And use AR, VR and other teaching resources and methods to promote the combination of human and technology. At the same time, strengthen the strengthening of professional technology, promote cross professional exchanges and cooperation, so that the professional cross-border team development. From the perspective of professional technology field, 5G technology industry also needs to strengthen and vertically grasp the boundary of professional technology, emphasizing autonomous learning and professional cooperation.

Based on cross-border exchanges and cooperation, promoting the interaction and penetration of different professional technologies, and forming innovative products and services will be an important feature of future industrial development. On the one hand, 5G technology and its supporting big data, artificial intelligence and other common technologies are interdisciplinary fields. For practitioners in this field, they mainly form support for their own industrial chain from software development, algorithm writing,

hardware design and other aspects. On the other hand, the 5G application level often requires cross-border teams to work together to realize the development of application resources. For example, in the field of vocational education, the development of corresponding professional teaching resources for AR and VR equipment requires school teachers to provide the design concept of pedagogy, enterprise personnel to provide the design details of relevant resources, and media designers to carry out the artistic production of resources, 5G resource developers then form resources suitable for corresponding devices. It can be seen that the mastery of labor force's technical skills in the 5G era is to strengthen the vertical and in-depth mastery of professional technical skills, and to emphasize the mastery of soft technical skills such as autonomous learning, knowledge conversion and team cooperation.

### **3 The Influence and Challenge of 5G Communication Technology on Talent Cultivation in Higher Vocational Colleges**

China's 5G communication technology has a broad prospect. According to the relevant data forecast of China Information and Communication Research Institute, by 2025, China's 5G users will exceed 800 million, and 30% of the world's connections will be occupied by China, which means that the world's largest 5G market will be China, and China will make a great contribution to global digitization. With the popularity of 5G Internet, online education will enter a new stage of development, and breakthrough reforms will take place in various levels and types of education modes. With the development of 5G technology, the training mode of higher vocational education will also produce unprecedented and epoch-making innovations [6].

With the development of 5G communication technology, education and teaching activities will break the limitation of traditional education area and time. The characteristics of high speed and low delay of 5G communication will determine the interactivity of online live courses, which can approximate the interactive effect of face-to-face teaching, and experience the face-to-face mode of teachers and students. In the course, teachers can observe and supervise the learning process of students, which will bring students a greater sense of achievement, more confidence in active participation, and can maximize the effect of classroom teaching and improve the quality of teaching. The improvement of online teaching effect will change students' and parents' cognition of online class [7]. In the future, there will be more teaching activities moving from ordinary classrooms to cyberspace, and teachers at all levels will face the change of transferring most of the teaching activities to the Internet, which means that new requirements are put forward for teachers, and teachers should make comprehensive changes in teaching mode, teaching methods and means. During the epidemic period, a higher vocational college conducted a survey on the online teaching of 362 teachers. The results showed that 54.6% of the teachers said that the online teaching was carried out for the first time due to the special situation of the epidemic. The survey on 7507 students showed that 83.55% of the students accepted the online teaching mode. Therefore, there is a big gap between teachers' proficiency in online teaching and students' acceptance of online teaching. Teachers need to adapt to the changes of teaching mode in the era of wireless high-speed Internet as soon as possible. According to the survey of the University, 87.7% of the

teachers think that they should pay attention to the construction of online classroom and curriculum resources in the future, so as to improve their ability to control the online classroom.

By analyzing the number of popular specialties related to 5g technology in recent three years, it is found that the seven popular specialties have a total of 3124 specialty points in 2020, an increase of 56% compared with 2002 specialty points in 2018. Among them, the number of big data technology and application majors increased from 212 in 2018 to 620 in 2020, an increase of 192%; The artificial intelligence technology service specialty has achieved a leap from zero to 173, which can be seen from the eagerness of industrial demand (see Fig. 2).

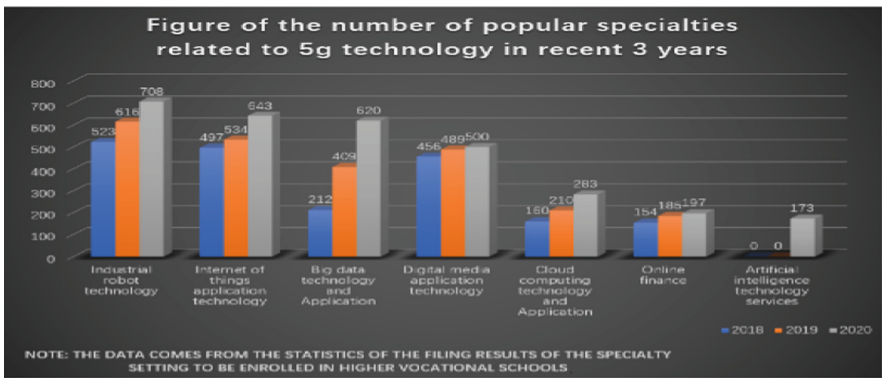


Fig. 2. Figure of the number of popular specialties related to 5G technology in recent 3 years

In addition, with the recognition of online learning by students and their parents, the construction of National Open University and the development of network education in well-known universities, in the 5G era, more and more students will go to universities through the network. The major challenge that colleges and universities are facing is how to attract students to apply for the examination? How to maintain and improve the level of talent training in the competition. A college has done an online questionnaire for the graduated students. The data shows that: as social learners, 42.6% of the respondents are willing to pay for online courses or receive online academic education under the premise of guaranteed quality, which is more obvious in the financial management students, reaching 51.2%. From these data, we can see that education in the future 5G era will be more and more carried out without physical campus.

With the Super bandwidth and ultra-low delay of 5G communication, plus the application of big data, cloud computing and virtual reality technology, panoramic virtual training similar to real scene will challenge the existing training mode and practical teaching mode. In addition, the combination of big data, cloud computing and 5G communication will also have a great impact on the evaluation mode of talent cultivation level in higher vocational colleges. Real time classroom teaching quality analysis and feedback will have a positive impact on teaching diagnosis and improvement as well as college development decisions.

## **4 The Changing Trend of Talent Training Mode of Higher Vocational Education in 5G Communication Era**

### **4.1 Virtual Reality and Augmented Reality Technology Will Be Widely Used in the Teaching Process**

As 5G communication technology is gradually recognized by people, the network communication with ultra-high bandwidth and ultra-low delay makes the interactive virtual training based on virtual reality and augmented reality possible. In the future, virtual simulation technology based on virtual reality and augmented reality technology will be widely used in higher vocational education. Due to the mature technology and preferential price of VR visual equipment, VR glasses are likely to become the standard product of higher vocational training room. Most of the training projects, especially the practical teaching projects with higher requirements for industrial and commercial scenes, the first choice is panoramic virtual training. In the future, with the popularization of 5G communication and the growing maturity of VR technology, ordinary classroom teaching may also use virtual reality technology. Students and teachers can go beyond the physical space limit and complete teaching activities in the virtual classroom through VR technology. The quality of class will be greatly improved compared with the existing live teaching.

### **4.2 In the Future, Big Data and Artificial Intelligence Technology Will Play an Important Role in Personnel Training**

With the wide application of 5G communication technology, the ultra-high bandwidth and ultra-low delay of 5G communication will be solved. In the future, big data and artificial intelligence technology will give vocational education more and more powerful “wisdom” support, and provide more powerful power for the modernization of vocational education. Teachers will be liberated to a greater extent by artificial intelligence technology. The comprehensive use of machine learning, image recognition, language processing and other artificial intelligence technologies to create “smart classroom” can help teachers complete classroom teaching, improve teachers’ teaching efficiency, release teachers’ time and energy, and improve classroom teaching effect to a certain extent [8].

In the 5G era, through the smooth and interconnected network communication, every student, teacher and even every networking device on campus can become a node and data source in the smart campus. Big data and artificial intelligence technology will significantly improve the scientificity of vocational education management. It provides comprehensive, accurate and effective information support for education management and scientific decision-making. Through the establishment of campus big data center and artificial intelligence management service platform, the analysis, mining and visualization of campus big data can provide data support for the decision-making of vocational college managers and improve the management level of colleges.

### **4.3 Online Education and Online Learning Will Become an Important Way for Most People to Receive Education**

With the advent of 5G era, the network communication with ultra-high bandwidth and ultra-low delay has established the information communication foundation for online education and online learning. The problems of network jam and poor network connection that plagued online education in the past will no longer exist. 5G communication will open up the “last kilometer” of intelligent network education, and real-time two-way audio and video interactive teaching will be realized without jamming. 5G communication can support high-definition multimedia interaction between data and content, realize various forms of student-centered online interactive teaching, better stimulate learning interest and improve the quality of online teaching. Under the background of 5G era, various innovative learning modes based on online education, such as micro class, MOOC and flipped classroom, will move from high-end niche to popularization and popularization [9].

At the beginning of 2020, due to the impact of the epidemic, both primary and secondary schools and colleges and universities are unable to return to school on time, and the vast majority of schools carry out teaching activities through the network platform. After experiencing all kinds of discomfort, from students, parents to teachers, online learning gradually from resistance to acceptance, online education has an explosive growth. After the epidemic, although the number of online education learners will decrease to a certain extent, the whole society’s acceptance of online education will increase greatly. In the age of free access to the Internet, whether college students or social learners, there will be a majority of learners learning online through the Internet. The popularization and application of 5G communication technology will break the time and space restrictions of online education, and open up the last bottleneck of online teaching. Online learners only need a smart phone or tablet computer to learn anytime and anywhere, and get rid of the restrictions that they have to rely on the local area network and can learn online in the home and office environment.

### **4.4 Virtual Cloud Experiment and Cloud Training Will Be Promoted and Applied in the Future**

The concept of cloud training is no longer unfamiliar. However, the scene rendering and operation of large-scale virtual training are generally carried out in the cloud. On the one hand, it needs ultra-high hardware configuration host, on the other hand, it needs high bandwidth and low delay network communication, so as to facilitate the data exchange between the cloud and the client. The delay of wireless network greatly affects the effect of cloud training and limits the application of cloud training. The high bandwidth and low delay of 5G wireless communication network are enough to meet the stable transmission of ultra high definition video. The high-performance computing in the cloud supports the rendering of training scenes. The computing and storage are put in the cloud, which reduces the configuration requirements of customer terminals. With about 1000 yuan smart phones and tablet computers, multi person remote collaborative cloud training can be realized. Similarly, the production and programming of high-definition video, which used to be unable to obtain high-quality experience on mobile terminals, need to occupy

large memory and powerful computing power, can be completed anytime and anywhere on mobile terminals relying on 5G network to connect to the cloud, greatly improving the convenience [10]. In the future, with the popularization and popularization of online learning, virtual cloud training will be widely used in higher vocational education practice teaching because of its super realistic virtual reality environment, relatively low equipment investment, and collaborative training beyond time and space.

## **5 Action Route Planning of Future Vocational Education in 5G Era**

### **5.1 Using 5G Concept to Improve Teaching Level**

According to the development direction of regional industry, the dynamic adjustment mechanism of professional development direction should be established. In the future development of 5G era, the career development environment faced by vocational college students is more complex, which needs to be combined with the professional connotation and future career development situation, and actively respond to the current career development situation. First, for the emerging industries brought by 5G, according to the regional industrial development planning, we should do a good job in the layout of new majors, and reasonably choose the distribution of colleges and universities, the spatial layout of majors and the scale of enrollment. The second is to promote the construction of professional groups, form the key professional groups and characteristic professional groups closely connected with the regional industrial chain. At the same time, for the weak majors, we should do a good job in the construction demonstration in time, choose to eliminate or integrate into the relevant professional groups based on certain logic. Vocational colleges need to make a comprehensive evaluation of their own teaching characteristics and external influencing factors in teaching. In talent training, they need to transform from traditional single talent training to broader industry and career development, and cultivate diversified technical talents, rather than limited to the linear employment logic in traditional education. The third is to establish the early warning mechanism of the matching degree between the regional professional talent supply and the regional economy. Through the establishment of the matching degree database, with the help of the relevant departments such as the Bureau of statistics and education, the data monitoring platform of the matching degree between the regional vocational college talent supply and the industrial demand is established. Vocational college education is the education situation that is most closely linked with the front-line production and service. In personnel training, we need to firmly grasp the modern education concept, adopt the forward-looking education concept, and better serve the society [11]. In the 5G era, we should emphasize the optimization of talent training standards and evaluation system, adhere to the guidance of new technology for R & D and innovation, and promote the transformation of talents to innovation and wisdom. In the era of 5G technology, higher vocational colleges can no longer use academic and employment information as a single point of application, but also need to pay attention to the cultivation of high-level and comprehensive talents. First time employment and long-term continuous vocational education should be taken as important education contents.

## **5.2 Deepen the National Education System of Integration of Industry and Education, and Promote the Two-Way Docking of Supply and Demand of Industry and Education**

In the 5G era, vocational education should closely follow the development of external formats, deepen the integration of industry and education, open up the talent chain, industry chain and innovation chain, and form a good supply-demand relationship with the industry demand side. In 5G era, professional design and layout should be done well in future vocational education. First of all, we should establish relevant vocational education groups and mixed ownership Vocational Colleges for 5G and other emerging industries, so that enterprises can really participate in the process of industrial talent training, and cooperate with vocational colleges to build teaching resources and training places. From the aspect of specialty setting, we should combine the current situation and strategy of local economic development, and give full play to the advantages of informatization. At the same time, vocational colleges can also get a close understanding of the industrial development trend. Secondly, we should strengthen the applied research in Vocational Colleges and improve the production innovation ability of service enterprises. First, based on the established regular production links of enterprises, it provides services for enterprises from the aspects of technology application talents training and technology application difficulties solving; Second, based on the enterprise's personalized and efficient production reform, it provides technological innovation services for enterprises from the aspects of applied technology research and practice. Through the establishment of a public service platform and think tank for industrial development, we can collect the technical assistance needs of regional enterprise development, and "market-oriented" operation by means of "bidding" and "receiving orders", which will be included in the evaluation index of higher vocational colleges. Adhere to the development of international trade as the basis, the formation of business English, cross-border e-commerce and other diversified professional groups. Driven by the high-level professional group, we should further innovate the high-level professional group of cultural creativity, accounting and information technology, create skilled talents with high quality and high-tech ability, and promote the development of regional economy.

## **5.3 Combined with 5G Advantages to Build a Modern Teaching System, Improve the National Education Ecosystem of General Vocational Integration**

In the 5G era, vocational education is also facing certain reform. Vocational college education needs to combine with the development law of education, fully apply 5G technology to strengthen the reform of teaching. First of all, promote the construction of cultural environment in vocational colleges, and further refine the characteristics of vocational colleges. From the perspective of teachers, the construction of teachers every year needs to invest a lot of financial resources to promote the improvement of teachers, such as carrying out the ten million teacher training project to strengthen the construction of teachers. In the training, the combination of information technology and professional courses is the main method. At the same time, through courseware making competition and information technology competition, we can further strengthen the training of teachers' information technology ability. Build a group of influential and professional

network teaching teachers. At the same time, vocational colleges should pay attention to the diversity of vocational education majors and the difference of their closeness to social life, which endows vocational education with multicultural inclusiveness. At the same time, we use 5G technology and smart campus service system to build vocational education mode, break the traditional vocational education restrictions, and enter the era of 5G autonomous learning. Speed up the credit mutual recognition and transformation mechanism between general education and vocational education. The type characteristics between general education and vocational education should be mainly reflected in the differences of knowledge and experience provided in the process of personnel training, which further forms the differences between the two types of education personnel training. Through the update of education concept and 5G vocational education concept, 5G + smart campus and artificial intelligence data center and service platform are constructed. Form a smart campus big data center, combine teaching services with smart management, create a multi integrated smart education environment of smart classrooms, training bases, workshops and various learning venues, and strengthen the in-depth analysis and reform of the teaching system combined with big data technology. The construction of specialty group in teaching can promote the construction of intelligent and digital learning environment and resources of specialty group through the "Cloud Architecture" in campus, and integrate the learning elements of each specialty with big data to form an intelligent teaching mode of closed management and open sharing of resources. Create a fragmented mobile learning mode of learning anytime and anywhere to meet the personalized and mobile learning requirements of education. And the use of information technology to build students' life cycle big data, to describe the students' psychology, behavior and other aspects of the portrait, to form personalized teaching content, and combined with the students' psychological portrait to carry out personalized teaching content and learning situation warning, to promote the development of vocational education. Finally, we should speed up the internal growth channel of vocational education, and further explore the cultivation of master and doctor of vocational education on the basis of undergraduate vocational education, so as to form a talent growth path with the characteristics of vocational education types.

#### **5.4 Strengthen Responsibility and Build a Modern Vocational Education System for All**

With the development of 5G era, vocational education institutions in various regions have realized the access and coverage of high-speed Internet. With the support of information technology and equipment, the optimization and sharing of vocational education resources have been realized, and the traditional teaching gap has been narrowed. The vocational enlightenment course is effectively integrated into the primary and secondary school culture class, labor class and other courses. Through professional experience, workplace visit, simulated occupation and other ways, it helps students form multiple professional values, consciously perceive their own learning tendency, and actively choose to study in the appropriate education type system. In the 5G era, the sharing of educational resources in future education is a two-way relationship model of radiation and being radiated, which has asymmetry in information sharing. The application of 5G technology development enlarges the consequences of regional economic imbalance,

changes the way of thinking greatly, and there are great differences in the types of employment and conditions, which can not be improved by 5G technology. All regions should do a good job in the overall implementation of career enlightenment, and build public career experience centers with the help of vocational colleges or external social institutions. Under the development background of 5G era, vocational education colleges need to combine the types of specialties and the characteristics of regional economic development, build characteristic colleges and specialties, promote the docking of industry and specialty, and strengthen the adjustment and improvement of specialty construction mechanism. In addition, it emphasizes the optimization of the professional evaluation index and information management system, and further improves the evaluation results and requirements, so as to eliminate the unqualified majors and build the indispensable Vocational Colleges for regional development, so as to help the development of society and regional economy. Using 5G technology combined with targeted poverty alleviation forces to promote the development of education in backward areas and ensure the fairness of education. For migrant workers, veterans, dropout youth and other employment vulnerable groups, “education + skills” compensation training. These groups often become vulnerable groups because of their low skills and education. Through vocational education, on the one hand, this kind of people can have skills to meet the basic ability requirements of post work; on the other hand, through the study of cultural courses, they can get academic certificates to enhance their competitiveness in the job market.

## 6 Summary

To sum up, under the background of the development of 5G era, vocational education has set off a new scientific and technological change, which promotes the development of the industry and has a certain impact on the field of industrial economy. We should promote economic reform, birth and change, and realize the repetition, reform and improvement of education. The epoch-making 5G communication will have an epoch-making impact on higher vocational education. In the coming 5G era, the talent training mode of higher vocational education will have an epoch-making change. The future talent training mode of vocational education will be a new presentation in the environment of high-speed wireless network communication, big data, cloud computing and virtual reality technology. With the innovation of educational technology and tools in the 5G era, educational resources have gained more convenient access and sharing channels, breaking the time and space constraints of teaching. Vocational colleges need to combine the advantages of 5G technology, create characteristic specialties, scientifically position the talent training objectives, connect with social services, promote the reform and practice of teaching, cultivate more innovative talents for the society, provide favorable conditions of science and technology and industry for the future professional talent training in the 5G era, and actively respond to the future education challenges in the 5G era, Promote the innovation of teaching mode. Higher vocational colleges should take the initiative to adapt to the innovation of technology and mode brought by 5G communication, make full use of the advantages of high-speed interconnection in the era of 5G communication, plan as soon as possible, and carry out beneficial exploration and practice in the construction of teaching resources, teaching mode reform, digital campus, virtual training and cloud training, so as to continuously improve the level of personnel training.

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