

Research on Innovative Research Talent Cultivation Mode of Universities under the Background of New Era

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Abstract: As socialism with Chinese characteristics enters a new era, and scientific and technological innovation serves as the source of national core competitiveness, the innovation of scientific research talent cultivation mode in colleges and universities has become particularly urgent. Taking the cultural thought of socialism with Chinese characteristics in the new era as a theoretical guide, this study thoroughly researches its specific application and influence in the cultivation of innovative scientific research talents in colleges and universities, aiming to provide theoretical and practical support for the modernization of China's higher education system and the enhancement of scientific and technological innovation capacity.

Keywords: Cultural thought; Scientific research talent cultivation; Innovative mode

Introduction

With the rapid development of science and technology, the traditional mode of training scientific research talents is facing many challenges. Cultivating innovative scientific research talents requires not only excellent professional knowledge, but also interdisciplinary comprehensive ability, innovative thinking and teamwork ability. Therefore, in order to meet the needs of scientific and technological development in the new era, it is imperative to carry out in-depth thinking and practical innovation on the cultivation of scientific research talents.

At present, China is in a critical period of economic and social development, and scientific and technological innovation has become the core driving force to promote national development. In this context, in-depth study of innovative scientific research talent cultivation mode has important theoretical and practical value for further improving the cultivation system of colleges and universities, promoting scientific and technological innovation, and improving the national innovation capacity.

1. Problems of the existing scientific research talent training mode

Existing scientific research talents training mode^[1] has some limitations, which are mainly manifested as follows:

1.1 Insufficient innovation atmosphere

Under the current model, some schools or research institutions may lack the atmosphere to encourage innovation, leading to the lack of enthusiasm and initiative of teachers and students.

1.2 Disciplinary barriers

Some cultivation models may focus too much on disciplinary subdivision, leading to difficulties for teachers and students to integrate interdisciplinary and cross-disciplinary knowledge in their research, which affects the cultivation of comprehensive innovation ability.

1.3 Insufficiency of practical application

Some training modes favor theoretical research and neglect the cultivation of practical application, which makes teachers and students lack experience in solving practical problems.

1.4 Imbalance of tutor resources

Some schools may have unbalanced tutor resources, which leads to certain differences in the guidance and support for students in scientific research.

1.5 Single evaluation standard

If the criteria for evaluating scientific research achievements are too single, favoring the number of papers and impact factor, the evaluation of innovative thinking and teamwork will be neglected.

1.6 Imperfection of innovation management mechanism

The lack of flexible and adaptable management mechanism will not be able to effectively respond to the rapid changes in scientific and technological development.

1.7 Inadequacy of internationalization vision

The current globalization has penetrated into every corner of the world, which reveals the importance of international vision to the development of innovative scientific research talents. Part of the model fails to fully introduce internationalization elements, while teachers and students lack opportunities to contact and communicate with international counterparts.

1.8 Weak concept of rule of law

Establishing the concept of rule of law is the minimum quality requirement for citizens in a civilized society, and enhancing the concept of rule of law of citizens is an important condition for the implementation of the rule of law. Some training models fail to fully emphasize the concept of the rule of law, and teachers and students may lack legal awareness and norms in scientific research practice.

1.9 Insufficient consideration of sustainability

In the decision-making stage of scientific research projects, sustainability is increasingly regarded as a fundamental goal. And the lack of comprehensive consideration of the sustainability and social responsibility of scientific research results will make it difficult for some scientific research projects to remain effective in the long run.

1.10 Insufficiency of diversity in cultivation mode

The most fundamental thing for colleges and universities to serve the society is talent cultivation. However, there is also a disconnect between the talent training mechanism of colleges and universities and social demand, and the specifications of talent training do not quite match the needs of society. Lack of diversified training mode for different characteristics and needs of teachers and students, can not fully tap the potential of each teacher and student.

Therefore, to improve the training mode of scientific research talents, it is necessary to consider the above problems comprehensively and emphasize the quality training of innovation, practice, internationalization and the concept of the rule of law, so as to make the training mode closer to the needs of the society and the development trend of science and technology in the future.

2. Construction of Innovative Research Talent Cultivation Mode^[2, 3]

2.1 Conceptual Leadership and Core Values Integration

First, promoting socialist core values. The cultivation model will implement socialist core values and cultivate students' sense of family and country and social responsibility. The second is to emphasize patriotic education. The concept of patriotism will be integrated into the cultivation process to inspire teachers and students to love the scientific research career.

2.2 Practical Curriculum Design for Cultivation of Innovative Ability

First, set up practice-oriented courses. Design research projects that emphasize practice so that teachers and students can master innovative methods and problem-solving abilities in real scenarios. The second is to optimize the tutor system. Construct a high-quality mentor team to provide academic guidance and practical guidance, and provide more practical opportunities for teachers and students.

2.3 Flexible innovation mechanism and evaluation system

First, the construction of incentive mechanism. Introduce incentive mechanism to encourage faculty and students to participate in innovative scientific research projects and promote their excellence in the academic field. The second is the multi-dimensional evaluation standard. Formulate diversified evaluation standards, taking into account factors such as academic achievements, social influence and teamwork.

2.4 Cultivation Mechanism for Deep Integration of Industry, Academia and Research

First, strengthen industrial cooperation programs. Cooperate with the industry to provide research projects in real scenarios, so that teachers and students can better integrate into the practical application environment. Second, internship practice opportunities. Increase the provision of a wide range of internship practice opportunities so that teachers and students can develop practical application skills in industrial practice.

2.5 In-depth penetration of the concept of the rule of law

First, the curriculum of the rule of law. Introduce education on the rule of law to cultivate the concept of the rule of law among teachers and students, so that they can follow the legal norms in scientific research practice. The second is moral and ethical education. Strengthen ethical and moral education to cultivate teachers and students to have noble character and professional conduct in the field of scientific research.

2.6 Cultivation of comprehensive quality and international vision

First, the cultivation of comprehensive quality. Emphasize the cultivation of communication, leadership and other soft skills, so that

teachers and students can have a wider range of abilities in the field of scientific research. The second is the introduction and cooperation of internationalization projects. Provide international research projects and exchange opportunities to expand the international vision of teachers and students.

2.7 Planning future-oriented sustainable development strategy

First, the planning of sustainable development strategy. Formulate a long-term development strategy to ensure that the training mode keeps pace with the times and adapts to the needs of future scientific and technological development. The second is to embed the concept of green scientific research. To guide teachers and students to focus on the sustainability of scientific research and to cultivate a sense of environmental protection and social responsibility.

This innovative scientific research talent cultivation model construction based on the cultural ideology of socialism with Chinese characteristics in the new era aims to further create comprehensively qualified, internationalized and high-level talents by taking value leadership and innovation ability as the core, and by combining various factors such as practical application, industrial integration, and the concept of the rule of law.

3. Implications of Socialist Cultural Thought with Chinese Characteristics in the New Era for the Cultivation Mode of Innovative Scientific Research Talents

Socialist cultural thought with Chinese characteristics in the new era provides important insights into the cultivation of innovative scientific research talents, which are mainly reflected in the following aspects:

3.1 Carrying forward socialist core values

Cultivation of scientific research talents should focus on promoting socialist core values and cultivating students' excellent qualities such as patriotism, dedication, integrity and friendliness. Scientific research should be combined with the development of the country and society, so that the scientific research results can better serve the society and reflect the spirit of socialist core values.

3.2 Promoting innovative ideas into education practice

The new era of socialist cultural thought with Chinese characteristics advocates innovation and development, which means that the cultivation of scientific research talents should promote the concept of innovation deep into the educational practice. Cultivate students' ability to be innovative and good at solving problems, and guide them to form a sense of innovation through curricula and practical projects.

3.3 General layout of comprehensive deepening reform

The cultivation of scientific research talents should constantly innovate the mechanism and adapt to the needs of the times. The thought of socialist culture with Chinese characteristics in the new era puts forward the general layout of comprehensively deepening reform, which provides guidance for the reform of the scientific research talent training system. Schools should constantly optimize the training mode, flexible curriculum, and promote the scientific research talent training system to be more adaptable to the diversified needs.

3.4 Focus on comprehensive rule of law

In the cultivation of scientific research talents, it is necessary to pay attention to the comprehensive rule of law and cultivate students to have scientific research ethics and the concept of the rule of law. Students should abide by academic norms in scientific research activities, focus on the legality and compliance of scientific research, and reflect the concept of ruling the country in accordance with the rule of law in a comprehensive manner.

3.5 Implementing the strategy of strengthening the country with talents

Change the idea to clarify the importance of implementing the strategy of strengthening the country with talents. The cultivation of scientific research talents should be closely integrated with the national talent demand, focusing on cultivating high-level scientific and technological innovation talents, and promoting national scientific and technological innovation and sustainable development.

3.6 Social Service and Responsibility

Cultivating innovative scientific research talents should focus on social service and responsibility. The idea emphasizes the purpose of serving the people, and scientific research talents should play a greater role in solving practical problems and promoting social progress, and have a sense of responsibility for society and the spirit of responsibility.

4. Conclusion

In conclusion, the revelations of socialist cultural thought with Chinese characteristics in the new era on the cultivation of innovative scientific research talents lie in the emphasis on the leadership of values, the promotion of innovative concepts, the innovation of the mechanism of comprehensively deepening reform, the concept of the rule of law in accordance with the rule of law in a comprehensive manner, the im-

portance of implementing the strategy of strengthening the country with talented people and the emphasis on social service and responsibility. These insights provide theoretical guidance for the cultivation of scientific research talents in colleges and universities, guiding colleges and universities to better adapt to the needs of the times and cultivate scientific research talents with more innovative ability and sense of social responsibility.

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