

# On the Research and Exploration of the Ideological and Political Reform of Biotechnology Postgraduate Curriculum

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## Abstract

"Curriculum Ideology and politics" is of great significance to strengthen and improve the graduate education in Colleges and universities in the new era. The ideological and political reform of biotechnology postgraduate course has its own characteristics. It is essential to improve and revise the personnel training program. It is the foundation to make the teaching guide of Ideological and political course. Strengthening the reform and innovation of teaching methods is the guarantee. The key is to improve teachers' Ideological and political ability.

## Keywords

Classroom ideological and political education; Graduate student of biotechnology; Construction of reform mode.

## 1. INTRODUCTION

"Ideological and political education of curriculum" is an inevitable requirement for the Party Central Committee to give full play to the role of Ideological and political education of professional courses and improve the quality of personnel training around the fundamental issue of "who to cultivate, how to cultivate and for whom to cultivate" in the new era. It is of great significance to strengthen and improve the graduate education in Colleges and universities in the new era [1].

## 2. THE SIGNIFICANCE OF STRENGTHENING AND IMPROVING THE IDEOLOGICAL AND POLITICAL REFORM OF POSTGRADUATE COURSES IN THE NEW ERA

### 2.1. The New Requirements of Graduate Training

Xi Jinping emphasized that postgraduate education plays an important role in training innovative talents, improving innovation ability, serving economic and social development, promoting the modernization of national governance system and governance capacity. In 1949, the number of graduate students in China was only 629, and in 2020, it will exceed 3 million. Colleges and universities should strengthen the important mission of high-level personnel training and innovation, adhere to the demand-oriented and effect oriented, focus on the main battlefield of national economic and social development, the needs of the people and the forefront of world science and technology development, constantly deepen the reform of postgraduate education and talent training mode, and carry out professional curriculum teaching design according to different majors and grades, We should explore and integrate

ideological and political elements seamlessly, realize the organic unity of professional education and ideological and political education, knowledge imparting and value leading, give full play to the role of Recessive Ideological and political education and moral education of professional courses, strive to enhance the practical and innovative ability of graduate students and their feelings of home and country, and cultivate new people in the new era who take the responsibility of national rejuvenation.

## **2.2. New Changes of the Fifth Scientific and Technological Revolution**

Since the beginning of the 21st century, global scientific and technological innovation has entered an unprecedented intensive and active period. A new round of scientific and technological revolution and industrial change is reconstructing the global innovation territory and reshaping the global economic structure. The new generation of information technology, represented by artificial intelligence, quantum information, mobile communication, Internet of things and blockchain, has accelerated breakthrough applications, and the life science field, represented by synthetic biology, gene editing, brain science and regenerative medicine, has fostered new changes. Natural sciences and Humanities and social sciences are increasingly showing a trend of cross integration, which has a profound impact on the future and destiny of the country and the well-being of the people. The postgraduate education of biotechnology specialty must grasp the transformative strategic opportunity, implement the new development concept of "innovation, coordination, green, opening and sharing", promote life science research through scientific and technological innovation, and meet the growing health needs of the people such as prevention, diagnosis and treatment [2].

## **2.3. The New Challenge of Ideological and Political Education of College Students in the "Post Epidemic Era"**

At present, the epidemic situation in the 21st century is intertwined with the changes in the past century, and the international pattern is undergoing profound evolution. The global public health system is facing a severe test. Human society is experiencing the most serious epidemic of infectious diseases in a century. In the new era of socialism with Chinese characteristics, social classes, interest subjects and life styles are becoming more and more diversified, and ideas are also changing. Facing the strong impact of Western ideology and culture, it is particularly urgent and important to do a good job in the ideological and political work of colleges and universities in the "post epidemic era" and give full play to the role of colleges and universities as the main position of Ideological and political education of college students. As an important part of the "three complete education" system, teachers undertake the sacred responsibility of teaching and educating people. Through actively implementing the ideological and political reform of curriculum, teachers' awareness and ability of carrying out the ideological and political construction of curriculum can be comprehensively improved, and a good atmosphere of "Ideological and political education in all courses and education in all teachers" can be formed, so that all kinds of courses and ideological and political courses can go together. To form a synergistic effect, ideological and political work should be carried out throughout the whole process of education and teaching, and ideological value guidance should be carried out throughout the whole process and all links of education and teaching, so as to comprehensively implement the fundamental task of Building Morality and cultivating people [3].

### **3. THOUGHTS AND OBJECTIVES OF THE IDEOLOGICAL AND POLITICAL REFORM OF BIOTECHNOLOGY POSTGRADUATE COURSES**

#### **3.1. The Goal of Curriculum Ideological and Political Reform**

With the cultivation of high-level innovative talents as the core, we should implement the fundamental task of Building Morality and cultivating talents, deeply explore the ideological and political connotation and teaching points of biotechnology professional courses, integrate the ideological and political education content into the whole process of postgraduate talent cultivation, adhere to the organic integration of value guidance, ability cultivation and knowledge transmission, and enrich the curriculum connotation through the research of innovative education and teaching methods. By optimizing the teaching design and improving the classroom management, we can achieve the same goal of biotechnology professional courses and ideological and political courses, and comprehensively improve the quality of personnel training.

#### **3.2. Content of Ideological and Political Reform**

We must adhere to the new socialist ideology of China with the characteristics of socialism, and cultivate people with the spirit of socialism with Chinese characteristics. With the emphasis on political identification, family feelings, cultural awareness, rule of law and moral cultivation, we will integrate Marx's basic standpoint and viewpoint, the requirements of socialist core values, and the mission and responsibility of national revival to the curriculum education and teaching. We will use medical biotechnology, ethical norms, and Xi Jinping's principles. Legal knowledge, public interest principle and ability run through the curriculum education and teaching, integrate the teaching resources of Ideological and political education, general education and professional courses, effectively integrate and promote the educational resources inside and outside the classroom, inside and outside the campus, and online, and build a comprehensive ideological and political system of Biotechnology professional courses with rich types, progressive levels and mutual support.

#### **3.3. The Focus of Ideological and Political Reform**

Biotechnology major is closely related to work and life, and has strong comprehensiveness. Life science is a science that studies the essence, characteristics and laws of life phenomena and life activities, which contains rich ideological and political education resources. The study of biotechnology professional courses can be based on the sociality of cells, with human structure and function as the core, with the treatment of diseases, new drug development, gene recombination, food transformation, 1 organ transplantation and other hot issues as the focus, so as to fully tap the ideological and political points of the micro world, and combine the teaching of professional courses with ideological and political education. In the course of teaching, we should answer the value judgment questions such as "why to develop technology", "how to use technology", "what is the purpose of technology development". To cultivate the scientific attitude of seeking truth from facts and being meticulous, the scientific spirit of striving for perfection and bold innovation, the humanistic feelings of respecting and saving lives, the mission of serving the people and the country through science and technology, and the correct values, outlook on life and world outlook.

## **4. THE CONSTRUCTION OF IDEOLOGICAL AND POLITICAL REFORM MODE OF BIOTECHNOLOGY GRADUATE COURSE**

### **4.1. It Is Essential to Improve and Revise the Personnel Training Plan**

It is necessary to accurately grasp the main line of "strengthening students' ideals and beliefs, educating students to love the party, patriotism, socialism, the people and the collective" in combination with the objectives and requirements of curriculum ideological and political reform and the characteristics and advantages of biotechnology major; improve the postgraduate talent training program, integrate the path to achieve the professional talent training objectives, and refine and implement the professional ideological and political objectives in each course Each chapter, each knowledge point, to optimize the teaching content, teaching method design, teaching implementation process and teaching result evaluation, throughout the whole process of personnel training, all aspects [4].

### **4.2. It Is the Foundation to Make the Ideological and Political Teaching Guide**

It is necessary to promote the teaching reform of professional courses under the guidance of "curriculum ideological and political education", organize experts to excavate the resources of Ideological and political education, scientifically design the content of Ideological and political education, formulate the teaching guide of Ideological and political education of professional courses, construct the teaching norms and standards of Ideological and political education, optimize the supply of Ideological and political content, and take the requirements of Ideological and political education as the important content of curriculum setting, curriculum standard approval and teaching plan evaluation, It is implemented in all aspects of curriculum goal design, curriculum standard revision, textbook compilation and selection, and teaching plan courseware compilation, and runs through classroom teaching, teaching discussion, experimental training, and assignment paper, so as to truly achieve "teaching has norms, ideological and political standards", "class has characteristics, and everyone attaches importance to educating people".

### **4.3. Strengthening the Reform and Innovation of Teaching Methods Is the Guarantee**

We should make good use of the main channel of classroom teaching, emancipate the mind, change ideas, comprehensively use thematic, case, interactive, experiential and participatory teaching methods, make full use of new technologies, new means and new methods, build a hybrid teaching mode of online and offline courses, and design distinctive courses by grades and levels, such as ideological and political MOOCs, micro courses, online courses Smart classroom, give full play to social practice, volunteer service and other educational functions of the second classroom, realize the unity of classroom education, practice education and network education, stimulate students' interest in learning, guide students to study actively and think deeply.

### **4.4. Improving Teachers' Ideological and Political Ability Is the Key**

It is necessary to strengthen the construction of teachers' ethics and conduct, fully implement the responsibilities of graduate tutors in moral education, model compliance with the code of conduct for graduate tutors, model practice of socialist core values, take the lead in safeguarding academic dignity and research integrity, and be both academic tutors and life tutors. We will improve the ideological and political education and training system, build long-term mechanisms such as typical experience exchange, on-site teaching observation, special topic guidance, and study visits, give full play to the functions of the teaching and research section, teaching team, and curriculum group in class preparation, class supervision, and mentoring, and take teachers' participation in the ideological and political education reform of the course and the ideological and political effect of the course as the evaluation, professional title

evaluation, merit evaluation, etc The important basis for selection and training is to improve the ideological and political ability of graduate tutors, comprehensively improve the cultivation ability and quality of graduate students, and strive to cultivate a large number of high-level innovative talents with "national feelings, global vision, innovative spirit and practical ability".

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