

Research and Practice on the Promotion System of College Students' Innovation and Entrepreneurship Ability under the Background of New Engineering

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Abstract : In recent years, the state vigorously promotes innovation and entrepreneurship, and as the core force of innovation and entrepreneurship, science and engineering disciplines is the focus of education reform. How to cultivate a generation of engineering talents with innovation ability and innovation consciousness is the key of education reform. However, in terms of the current situation of university training, the innovative and entrepreneurial talents trained by universities cannot meet the existing needs of innovative and entrepreneurial talents. Therefore, universities should optimize the innovation and entrepreneurship ability promotion system of college students and change the new education mode, so as to improve the innovation and entrepreneurship ability of college students. Based on the background of new engineering, this paper makes a brief analysis on the research and practice of college students' innovation and entrepreneurship ability system.

Keywords : Innovation and Entrepreneurship; Engineering Talents; College Students

In recent years, China's economic development mode has changed from high growth rate to high quality. Economic development pays more attention to quality, which means that the pressure of enterprise development increases, followed by the increase of employment pressure. As builders and successors of the new era of socialism, college students should improve their innovation and entrepreneurship ability, develop in many aspects, and strive to improve their practical ability, so as to meet the social demand for new innovation and entrepreneurship talents. Of course, colleges and universities should focus on cultivating college students' innovation and entrepreneurship ability, in order to alleviate the social demand for new talents. At present, there are still some problems in the construction of innovation and entrepreneurship ability system, such as the lack of evaluation standards, the backward cultivation concept, and the lack of attention on the ideological level, the traditional innovation and entrepreneurship teaching content, and the ideological education of college students.

1. Reasonable selection of innovation and entrepreneurship evaluation index

Innovation and entrepreneurship evaluation index is the wind vane to guide college students' innovation and entrepreneurship. If colleges and universities want to build a reasonable system of college students' innovation and entrepreneurship ability, they must reasonably select the evaluation index of innovation and entrepreneurship ability. The selection of evaluation index is based on comprehensive judgment of college students' practical ability and social development needs, with strong operability and professionalism. Combined with the actual situation and objective factors, it can accurately judge the actual situation of college students. Through the establishment of a reasonable evaluation index system, we should guide college students to cultivate

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innovative spirit, innovative ability and entrepreneurial ability, entrepreneurial management ability, which can be implemented to the specific evaluation link through the secondary or tertiary elements. To help college students tap their inherent entrepreneurial potential, we should cultivate their sense of innovation and stimulate their interest in entrepreneurship. The creation of ability indicators must comply with the scientific and operational, such as entrepreneurial management ability, which can be divided into resource integration ability, opportunity control ability and comprehensive management ability.

2. Transforming the concept of cultivation, attaching importance to the construction of campus atmosphere

The cultivation of talents needs to pay more attention from the ideological level. Both colleges and students should pay more attention to innovation and entrepreneurship, cultivate the awareness and ability of innovation and entrepreneurship, so as to improve the success rate of innovation and entrepreneurship. First of all, colleges and universities should pay attention to the construction of campus cultural atmosphere, strengthen the guidance of the construction of innovation and entrepreneurship culture, and carry out more relevant academic exchanges, innovation and entrepreneurship exchange competitions and other practical activities, so as to give college students the opportunity to participate in practice, cultivate college students' innovation and entrepreneurship consciousness, and optimize college students' cognition of employment. Secondly, we can invite relevant successful people to hold academic exchanges to provide students with successful experience in innovation and entrepreneurship, to help students answer their doubts and stimulate their interest in innovation and entrepreneurship. Finally, schools should provide students with learning opportunities for innovation and entrepreneurship courses, increase capital investment, and invest in the construction of entrepreneurship incubation base, in order to provide students with the opportunity to participate in practical activities.

3. Optimizing the innovation and entrepreneurship teaching content, improving the personnel training mechanism

According to the relevant data reports, college students' willingness to choose innovation and entrepreneurship is low, and their innovation consciousness is poor, with low innovation ability. This is directly related to the training strategy of colleges and universities. Colleges and universities should optimize the teaching content of innovation and entrepreneurship, fundamentally improve the quality of education, through the integration of educational resources, and constantly improve the construction of curriculum system, as well as take the cultivation of college students' innovation and entrepreneurship as an important part of teaching. We should update the education curriculum, change the education mode, and form a complete curriculum system from the teaching methods, examination, practical training and other aspects, so as to stimulate students' interest in innovation and entrepreneurship. We should increase capital investment, build an excellent teaching team, and provide excellent teacher education for college students' innovation and entrepreneurship, in order to improve the teaching staff, improve the personnel training mechanism, and comprehensively improve the practical ability and comprehensive quality of engineering talents.

4. Forming an interactive cooperation mechanism in the industry

The cultivation of college students not only focuses on the inside of the school, but also can be connected with other industries in the industry. First of all, colleges and universities can promote the cultivation of students according to the relevant instructions of the education authorities, integrate the educational resources and social resources in the school, and provide guarantee for the cultivation of students' innovation and entrepreneurship. Secondly, schools can cooperate with enterprises to form a school enterprise cooperative education mode, provide students with real practical opportunities, and help students integrate into the social environment, to truly realize the current employment situation. Finally, as the harbor of students, families should break the old ideas, encourage students to carry out innovation and entrepreneurship, and provide certain support for students when necessary. As the encouragement of students' innovation and entrepreneurship, we should provide courage and confidence for students, and let them go to innovation and entrepreneurship boldly. In addition, the school can cooperate with other schools to build the experimental center of entrepreneurial industrial park, integrate teaching resources, and provide college students with the practical basis of innovation and entrepreneurship.

5. Incentive training mode

The social experience of college students is still insufficient, so the strike education cannot be used as the mainstream education mode of college students. The choice of incentive training mode is conducive to the positive guidance of college students. First of all, the school should establish a set of perfect incentive mechanism, respect the differences of students, and provide targeted

guidance to students. Because not all students are interested in entrepreneurship, what schools can do is to guide students to be interested in entrepreneurship as much as possible. Through the development of reasonable incentive standards, as well as the evaluation system, carry out activities, give relevant rewards to students with excellent performance, and stimulate students' entrepreneurial consciousness as much as possible. At this time, the school is the role of the guide. Secondly, pay attention to the cultivation of students' comprehensive skills. Innovation and entrepreneurship is one aspect of the cultivation of students, meanwhile, we should also cultivate students' excellent professional ethics and work style to pave the way for them to enter the society. At this time, the school is the role of the instructor.

6. Using the advantages of Internet to build a platform

With the continuous development of network technology in China, network technology is gradually applied to school education, and engineering education should not lag behind. It should make use of the advantages of the Internet to provide a platform for students' innovation and entrepreneurship. In the context of engineering education, schools should strengthen the integration of resources, and use the advantages of the Internet to build an innovation and entrepreneurship platform with engineering characteristics. In this way, we can strengthen the communication between students and teachers, break the situation of information asymmetry, and let students get more useful knowledge about innovation and entrepreneurship, so as to really promote the improvement of college students' innovation ability. In addition, the platform contains many modules, which can not only guide and encourage students to actively participate in social practice activities and innovation and entrepreneurship activities, but also support students to form innovative achievements, register, policy consultation, etc., in order to help students avoid detours in the process of innovation and entrepreneurship.

7. Conclusion

At present, the cultivation of college students' innovation and entrepreneurship ability has become a hot topic in the field of education, and the relevant reform measures are also being promoted. However, it does not mean that the cultivation of college students' innovation and entrepreneurship ability has been a complete success. At present, there are still some problems in the cultivation of college students' innovation and entrepreneurship ability. The traditional education methods, backward teaching contents and lack of capital investment are the main factors that hinder the cultivation of college students' innovation and entrepreneurship ability. Under the background of engineering, when constructing the innovation and entrepreneurship ability promotion system of college students, the university can lay the foundation for the construction of innovation and entrepreneurship ability promotion system by reasonably selecting the evaluation index of innovation and entrepreneurship ability.

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