

Research on the Construction of Innovation and Entrepreneurship Education Ecosystem in Colleges Guided by Fostering Virtue in Education

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Abstract: Focused on the construction of innovation and entrepreneurship education ecosystem guided by “Fostering Virtue in Education,” colleges are grounding efforts in the new development stage, applying the new development philosophy, and creating a new framework of development. Under China's new era, fostering character and civic virtue is the due meaning of innovation and entrepreneurship education in higher education. Adoption of this strategic approach accelerates the transformation of economic development mode, and build an innovative country. It is also an education strategy which can improve the quality of talent training and innovation & entrepreneurship education. An important way to promote the all-round development of university students is to implement the core measures of increased employment by entrepreneurship and the full employment of graduates, which is related to the fundamental issue of “who to cultivate, how to cultivate and for whom to cultivate.” In the new era, innovation and entrepreneurship education in colleges and universities should be based on the local conditions, respond to the needs of the times, connect with the national development strategy, grasp the correct development direction, become an important force to promote the national economic development and social harmony and progress, cultivate the new force of “mass entrepreneurship and innovation” in line with the requirements of the times and the country, and realize the transformation of university functions and missions. To carry out the fundamental task of talent cultivation in universities.

Keywords: Fostering virtue in education; Innovation and entrepreneurship education; Ecosystem

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1. Introduction

Based on the “widespread entrepreneurship and innovation,” the school of chemistry and materials of Guizhou Education University fully implements the national innovation driven development strategy and the requirements of innovation and entrepreneurship talents training, takes morality cultivation as the guidance, and stimulates students’ innovation consciousness as the guidance, and strives to build an innovation and entrepreneurship education student work ecosystem with “full participation, full training, and all-round coverage.” Efforts have been made to cultivate high-quality applied innovative talents, and a series of achievements have been achieved (incomplete statistics of achievements in recent three years). It mainly includes: provincial scientific research project and department level scientific research project; guiding students to win the second prize at the 13th National College Students’ energy conservation and emission reduction social practice and science and technology competition once; guiding students to set up 4 national, 2 provincial and 7 school level innovation and entrepreneurship training programs; guiding the

establishment of 3 scientific research projects for college students in Guizhou Education University; publishing many papers, etc.

2. Pay attention to virtue cultivation and make value orientation “correct”

From the current development situation, the ideological concept of innovation and entrepreneurship education lags behind the practice, which needs ideological and political education to guide its value, and the development of Ideological and political education also needs to be combined with solving the practical problems of innovation and entrepreneurship, thus to be “grounded” and “effective.” It has carried out relevant research and produced some theoretical and practical research results, providing supporting materials for the collaborative education of innovation and entrepreneurship education and ideological and political education.

Related research projects:

- (1) The reform project of teaching content and curriculum system of colleges and universities in Guizhou Province in 2019.
- (2) The humanities and social sciences research project of Guizhou Provincial Department of education in 2019.

Publication of related papers:

- (1) Suggestions on the development of innovation and entrepreneurship education in colleges and universities in the new era (political teaching reference in middle school, 2021.03).
- (2) Research on the path of improving college counselors’ professional ability under the background of innovation and entrepreneurship (Journal of Contemporary Educational Research, 2020.07).
- (3) Strengthen the quality and ability construction of counselors in the new era, and help the innovation and entrepreneurship education in colleges and universities (knowledge economy, 2020.07).

3. Pay attention to management and education, make rules and regulations “set up”

The college has set up an innovation and entrepreneurship education leading group with the Secretary (Dean) as the group leader. In combination with “the measures for the management of the innovation and entrepreneurship training program for college students of Guizhou Education University (Revised),” “the measures for the organization and management of the competition work for college students of Guizhou Education University (Trial),” the Based on the spirit of the document “measures for competition and reward of college students of Guizhou Education University (Trial)” and “measures for reward of innovation and entrepreneurship training program of college students of Guizhou Education University (Trial),” the school of chemistry and materials, based on its own reality, formulated the “notice on the establishment of innovation and entrepreneurship leading group of the college of chemistry and materials.” A series of documents, such as “management mechanism of innovation and entrepreneurship teachers in college of chemistry and materials,” make good practices and experiences solidify and inherit in the form of system, and constantly improve and develop in practice. Strengthen the construction of organization and management system. We will introduce the performance appraisal plan of the college of chemistry and materials, make top-level planning, incorporate innovation and entrepreneurship education into the year-end performance appraisal plan of the college, and encourage teachers and students to participate in the practice of innovation and entrepreneurship. The “innovation and entrepreneurship” education has been incorporated into the long-term development plan of the college as an important part of the college’s “double first-class” construction and “teacher certification” projects, forming a long-term working mechanism of “unified management, hierarchical responsibility and classified guidance.”

4. Pay attention to collaborative education, make education work together

The school of chemistry and materials of Guizhou Education University complied with the decision and deployment of the CPC Central Committee and the State Council on promoting “widespread entrepreneurship and innovation,” adheres to integrating innovation and entrepreneurship education into the whole process of talent training, takes morality and talent cultivation as the concept, takes innovative talent training mechanism as the opportunity, continuously optimizes talent training scheme, and promotes the deep integration of innovation and entrepreneurship education and professional education, Strive to cultivate high-quality innovative and entrepreneurial talents to adapt to and lead the future development. The 32 class hours of “innovation and entrepreneurship training plan guidance course” is a compulsory course for all professional students in the college. Students are required to actively participate in innovation and entrepreneurship competition and innovation and entrepreneurship training projects. Innovation and entrepreneurship education covers all students.

In order to achieve major goals of “Labor education in primary and secondary schools and colleges” and “Deepening the construction of innovation and entrepreneurship education reform demonstration universities in 2019,” universities deeply explore integration of innovation & entrepreneurship and labor education, which striving to create an upgraded version of innovation and entrepreneurship education. The school of chemistry and materials of Guizhou Education University adheres to the fundamental task of moral education. From the perspective of collaborative education, combined with working experience, this paper deeply explores the homology of educational objectives, the integration of educational contents, the similarity of ways and methods, and the consistency of educational functions, and puts forward the theoretical basis of collaborative education. This paper explores the construction of collaborative education path from the aspects of teaching concept design, curriculum system setting, teaching staff building, campus cultural atmosphere construction and education practice field expansion, which promotes the collaborative development and two-way deepening of innovation and entrepreneurship education and labor education in colleges and universities. Actively guide students to participate in the “Youth Red Dream Journey” innovation and entrepreneurship competition, apply for college students’ innovation and entrepreneurship plan training project, experience the glory, loftiness and greatness of labor through innovation and entrepreneurship practice, and gain achievements and joy through labor. Actively connect with new technologies, new situations and new business formats such as artificial intelligence, big data and cloud computing, lead students to Guiyang big data center, visit China international big data industry expo, and tell the story of “made by China’s intelligence” and “created by China,” as well as the story of “eye of the sky,” an important tool of a big country located in Guizhou, especially the scientific spirit and spirit contained in it. The spirit of innovation and labor emphasizes the importance of mental and creative labor for building a modern power, complements the shortcomings of labor education, cultivates college students’ thinking of “Science + innovation,” constantly stimulates students’ labor enthusiasm and innovation power, and strives to realize the transformation from learning to work, loving to work to creative work, and cultivates students with craftsman spirit and creative ability. Activities outlined above also make them become the new generation who can be the great task of national rejuvenation, promote the implementation of the fundamental task of Fostering virtue in education.

5. Pay attention to practical education, make the participants “move”

The school of chemistry and materials of Guizhou Education University takes practical education as a critical measure to implement the fundamental task of virtue education, and as an important content of innovation and entrepreneurship education, constantly enriches the connotation of practical education, and actively guides students to carry out social practice and employment and entrepreneurship in grassroots and poverty-stricken areas; We should constantly innovate the ways of practical education, establish the system

of college students' practical innovation, and strive to create a new mode of practical education and innovation and entrepreneurship education in colleges. We should take innovation and entrepreneurship competition, innovation and entrepreneurship training programs, and college students' scientific research projects as the important starting points of practical education. Teachers in this school have guided students in numerous competitions, programs and academic researches. They have acquired the second prize of the 13th National College Students' energy conservation and emission reduction competition, and 4 national, 2 provincial and 7 school level innovation and entrepreneurship training programs. With help of tutors, they have succeeded in applying for 3 scientific research projects and 4 posting articles. Tutors have published several books and papers, including 1 Chinese core journal. The number of students taken part in activities mentioned above accounts for about 60% of the total number of students in the school.

6. Pay attention to service education, make education effect “real”

The School of chemistry and materials of Guizhou Education University takes virtue education as the foundation, keeps in mind the mission of education, keeps a good section of canal, plants a good responsibility field, takes service education as the purpose, based on post ideological and political education, strengthens the construction of academic and engineering team, improves the service level, and makes contributions to the cultivation of socialist builders and successors with all-round development of morality, intelligence, sports, beauty and labor. Print and distribute the notice on establishing and improving the guidance and assistance mechanism for all employees' employment and entrepreneurship, actively establish and improve the assistance mechanism for all employees' employment and entrepreneurship, and create a good atmosphere of “everyone cares about employment work and everyone participates in employment work.” We should pay attention to the employment desire of graduates, help them develop and support their entrepreneurship, and focus on solving the employment difficulties of graduates. Based on propaganda and ideological work, we should grasp employment, strengthen the guidance of public opinion, do a good job in ideological work of graduates, guide and encourage graduates to establish a correct outlook on employment, career, career and talent. Strengthen classified guidance and assistance. It is necessary to have a deep understanding of the students' situation, find out the students' mentality, know the students' wishes, and carry out employment and entrepreneurship guidance and assistance by classification. According to the detailed information statistical table and the corresponding way, understand the students' employment and entrepreneurship intention, where they want to go, and what kind of help they want to get, accurately identify the filing graduates, and really help and recommend them, so as to help them have a plan, a plan, a record, and a summary, so as to promote the employment of one filing graduate and get rid of poverty. Every year, we provide employment subsidies for difficult graduates, encourage them to find jobs and start businesses, track and help them, and form a standing book for difficult graduates. Provide information inquiry, employment and entrepreneurship policy consultation, employment and entrepreneurship guidance and other services for graduates.

7. Conclusion

“Fostering Virtue in Education” leads the construction of innovation and entrepreneurship education ecosystem in colleges and universities. In the new era, it is the due meaning of innovation and entrepreneurship education for universities which grounds efforts in the new development stage, applies the new development philosophy, and creates a new framework of development. It is a strategic measure to serve the country to accelerate the transformation of economic development mode and build an innovative country, and to improve the quality of talent training. A significant way to promote the all-round development of college students is to implement the important measures of promoting employment by entrepreneurship and promoting the full employment of college graduates. It is related to the fundamental

problem of “who to cultivate, how to cultivate and for whom.” Innovation and entrepreneurship education in Colleges and universities in the new era should be based on local conditions, respond to the needs of the times, connect with the national development strategy, grasp the correct development direction, become an important force to promote national economic development and social harmony and progress, cultivate a new force of “widespread entrepreneurship and innovation” in line with the requirements of the times and the country, and realize the transformation of university functions and missions, implement the fundamental task of Fostering character and civic virtue in colleges.

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Disclosure statement

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