

# Convergence Entrepreneurship Education for Industry Innovation

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## 융합기술 창업교육을 통한 산업혁신 전략

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### Abstract

The era of entrepreneurial university is advancing the regional innovation ecosystem (RIE) in which universities exchange key resources with the ecosystem and play a major role in new industry creation. This paper offers a review of recent literature on this topic and examines the convergence entrepreneurship education programs in Korea and the U.S. for industrial innovation.

## 1. Introduction

Entrepreneurial universities are advancing the regional innovation ecosystem in which they exchange key resources with the ecosystem and play a major role in new industry creation. The regional innovation system (RIS) concept along with the mainly knowledge/human resource generation role of universities within the triple-helix may not fully explain today's dynamic, regional innovation ecosystem (RIE) development led by some highly entrepreneurial universities.

In this paper, we aim to examine the features of successful convergence entrepreneurship programs and observe how they can transform the regional industry to become a highly advanced ecosystem around entrepreneurial universities.

## 2. Convergence Entrepreneurship Education Case Study

Five convergence majors are introduced with their curriculum structure, experiential learning, and startup projects that combine interdisciplinary technological fields. The outcome (both tangible products/services and soft skills) from the 4-year effort of Soonchunhyang University are presented. The case study also discusses how the students have contributed to industrial

innovation in connection with companies.

## 3. Conclusion

In an RIE with enriched social capital, entrepreneurial universities can go beyond just incubating startup companies but cultivate innovation leadership prepared for all types of future organizations and challenges. In this learning process, failures are often experienced by student entrepreneurs sustained by the RIE and rather produce a resource of lessons learned. Universities and the students enrolled in both degree and non-degree programs at varying age levels contribute to nurturing social capital (as agents of change) as well as take advantage of it (as beneficiaries). Social capital, a dynamic ecosystem for regional innovation and entrepreneurial universities will trigger the innovation value chain and make the ecosystem move faster toward economically and socially impactful solutions. In this emerging field, this paper will add meaningful insight and a direction for the role of the entrepreneurial university in a new RIE and how to foster its necessary social capital.

### References

- [1] H. Yoon, J. Lee, "Entrepreneurship Education and Research Commercialization of Engineering-Oriented Universities", *IJEE*, 2013.