

The Importance of STEM Careers to Make a Better Future for Our Society

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Abstract

The digital age has revolutionized and transformed the dynamics of our everyday life and caused radical changes in most industries and Education sectors. Education and the workplace are the areas that best reflect this paradigm shift. New technological innovations, changes in production modes, digitalization, and globalization have laid the foundations for the emergence of the Fourth Industrial Revolution. The current scenario moves past logic to focus on the need to train new generations in the scientific and technical knowledge that is the basis of many of today's careers and, especially, tomorrow's. Thus, STEM career profiles are the most sought-after today and are intended to meet the needs of contemporary society. Universities, which are always aware of and permeable to the needs of our digitalized society, are promoting STEM-like careers more and more as they become more compatible with technological evolution. STEM jobs have grown in importance in the labor market in recent decades, and they are widely seen as the jobs of the future. Using the data it was investigated that the role of employment in STEM occupations when it comes to recent changes in the occupational employment distribution students Mathematics and science coursework, knowledge, and skills are important for midlife occupations. Findings suggest that this knowledge and skills enabled students to adapt and navigate changing labor market demands. This study provides important new evidence about the possible role of schools in individuals' capacity to adapt and succeed at work through midlife. Our findings shed light on how the formal educational processes in schools and the curriculum to which students were exposed contribute to how individuals navigate the challenges of a rapidly changing labor market.

Keywords: Digital age, STEM-like careers, Education, contemporary society, technological innovations