

5 new careers that will change the future of work

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FULL TEXT

The **labor ecosystem** demands increasingly specialized profiles and few universities are including in their enrollments careers that respond to these needs.

Specialists from Blue Ivy Coaching, an organization specialized in international education, estimate that 42% of job applicants do not meet the requirements and although some companies are willing to train them, the cost is too high.

Contrary to popular belief, educational consultants point out that there are universities that offer innovative careers that are in high demand and offer facilities to students from all over the world so that they can become professionals in these new trends.

Five top-level academic institutions in the United States are examples of how studying in another part of the world is the best investment to achieve high-level professional development.

Internet of Things at Florida International University

With the increase in technological consumption, the Internet of Things or Internet of Things (IoT) is one of the areas that has grown the most and its future is even more promising, as it is projected that before 2030 more than 20 billion devices of its kind will be used in the world.

Aware of this demand, **Florida International University** (FIU), in Miami, became the first institution to offer this career in the United States. Its vision is to develop profiles that occupy IoT Engineering and Development positions working with microcontrollers and sensors, as well as programming and troubleshooting these smart devices. Blue Ivy advisors highlight the impact of the FIU program, as its graduates not only play a key role in the interpretation and application of the data generated by these devices, but also in the creation of new business models.

Ecological Urbanism at Hofstra University, NY

Urban ecology is one of the fastest growing subfields of ecology in the face of a future that holds impending environmental crisis. It is offered at **Hofstra University** (New York State), ranked in the Top 200 among U.S. universities, and specializes in meeting the growing demand for professionals who understand the complex interactions between humans and habitats in cities and suburbs.

Its focus is to lead graduates into a variety of professional fields: from environmental education and consulting to conservation and natural resource management, with a rigorous academic foundation and experience in conducting advanced, cutting-edge research that addresses critical conservation, development and ecological challenges. The institution offers multiple scholarships for international students.

Clinical Bioanalysis at American University

The Clinical Bioanalysis major focuses on understanding the chemical, biochemical, biophysical, molecular and physiological mechanisms of the human body to ensure proper diagnoses of prevalent and emerging diseases.

Blue Ivy Coaching specialists explain that this career has had a strong push as a result of the Covid-19 pandemic, since the prevention and detection of the disease was key to fight it.

In this profession, management profiles are developed to design and execute quality control programs in the different laboratory areas to ensure the precision and accuracy of the results obtained. **American University**, based

in Washington, D.C., is ranked number 79 in the United States.

Aerospace Engineering at Arizona State University

There is no slowing down in the "take-off" of autonomous mobility and by 2030 it is expected that up to 15% of new cars sold will be of this type. What's surprising is that this trend has also been reflected in the aerospace industry, where the autonomous aircraft market saw annual growth of 16% from 2021 to 2022 alone.

According to **Blue Ivy**, this is due to new needs in both the military and civilian sectors, where less manual systems are demanded to operate an aircraft. Hence, **Arizona State University (ASU)** in Phoenix, considered among the top 25 institutions offering Aerospace Engineering, has created this specialty in autonomous vehicles.

Its BSE program in aerospace engineering with an emphasis in autonomous systems provides graduates with the knowledge and skills necessary for any career in aerospace engineering, in addition to those specific to unmanned aerial vehicles and systems.

Plant and Soil Science at Louisiana State University

Food accessibility and care for our planet is one of the great challenges of the present and future, as the demand for food is expected to increase by 59% to 98% by 2050.

Faced with this scenario, the **University of Louisiana (LSU)**, in Baton Rouge, created the Bachelor of Science in Plant and Soil Sciences to train professionals to develop solutions to problems of agricultural production, utilization, crop development, environmental control and biological systems to improve the quality of life.

Upon graduating from this degree, students can have jobs as diverse as agronomist, sports field specialist, plant geneticist, soil scientist, crop consultant, seed production agronomist or pest researcher, positions that will be required in the future because of climate change and solution of food needs.

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