



G A L O R A T H

The Top Five Trends Impacting Cost Engineering In 2024

Forbes • March 8, 2024



Cost engineering has always been pivotal in balancing project aspirations with practical budgetary constraints. However, the complexity of modern projects and heightened expectations for sustainability and efficiency demands a more nuanced approach. Today's cost engineers must navigate a landscape where traditional methods intersect with cutting-edge technologies and innovative practices. Driven by technological advancements, environmental considerations and evolving project management methodologies, the landscape of cost engineering is rapidly changing.

With over 40 years of experience in engineering, software, estimating and analysis, I've watched the cost engineering industry evolve, adapting to economic change and innovations. In this article, I'll dive deeper into five trends poised to impact the industry's future and how cost engineers can equip themselves with the knowledge and tools to lead their projects toward success in an ever-evolving landscape.

1. Artificial Intelligence

Artificial intelligence (AI) will be increasingly pivotal in cost engineering. AI's capabilities in predictive analytics, machine learning and data processing transform how cost engineers approach project estimation and risk assessment.

Its impact is multifaceted. One key area is its ability to enhance predictive analytics. AI algorithms can analyze vast datasets to forecast potential cost overruns and identify risk factors early in the project lifecycle. This enables cost engineers to make more informed decisions, leading to more accurate and reliable project outcomes.

The opportunities presented by AI in cost engineering are too significant to ignore, yet the integration also presents challenges, one primary concern being the need for high-quality data. To overcome some obstacles, ensure your team has the suitable systems and programs to provide accurate and comprehensive data to produce reliable predictions. In addition, finding professionals skilled in cost engineering and AI technologies can help harness the latest AI tools effectively.

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