

## Apps Reduce the Cost of Construction

**Authors :** Ali Mohammadi

**Abstract :** Every construction that is done, the most important part of attention for employers and contractors is its cost, and they always try to reduce costs so that they can compete in the market, so they estimate the cost of construction before starting their activities. The costs can be generally divided into four parts: the materials used, the equipment used, the manpower required, and the time required. In this article, we are trying to talk about the three items of equipment, manpower, and time, and examine how the use of apps can reduce the cost of construction, while due to various reasons, it has received less attention in the field of app design. Also, because we intend to use these apps in construction and they are used by engineers and experts, we define these apps as engineering apps because the idea of their design must be by an engineer who works in that field. Also, considering that most engineers are familiar with programming during their studies, they can design the apps they need using simple programming software.

**Keywords :** layout, as-bilt, monitoring, maps

**Conference Title :** ICCECM 2025 : International Conference on Construction Engineering and Construction Management

**Conference Location :** Toronto, Canada

**Conference Dates :** June 15-16, 2025