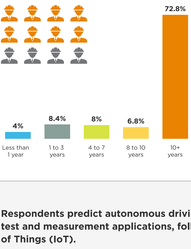
SNAPSHOT: TEST & MEASUREMENT TRENDS, NEEDS, AND WANTS

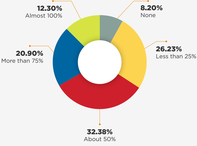
Digitization are driving and cutting-edge technologies—such as 5G and autonomous and electric vehicles—is driving rapid innovation and growth across the test and measurement industry, accompanied by increasingly complex and diversified test requirements.

This survey highlights test and measurement trends, challenges, and requirements through the eyes of 265 engineers.

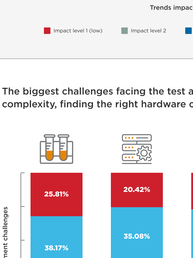
Almost 50% of respondents work in the automotive, industrial equipment, and aerospace/defense industries.



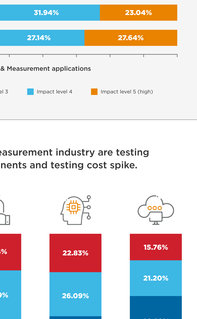
Qualified electrical or mechanical engineers comprise over 50% of respondents.



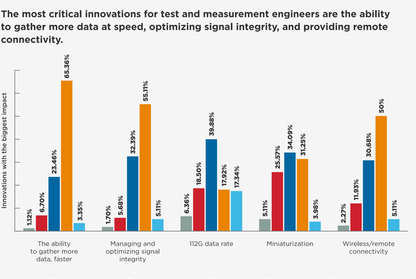
Almost 75% of respondents have over 10 years of engineering experience.



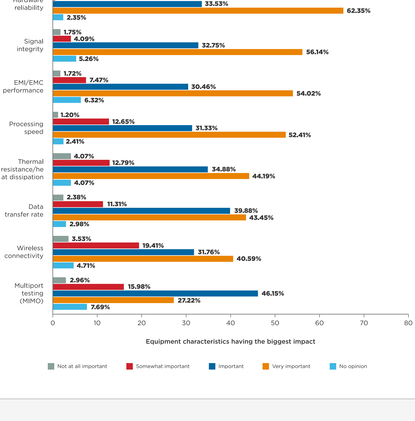
More than 65% engineering design involves test and measurement more than half of the time.



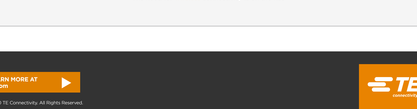
Respondents predict autonomous driving will have the most significant impact on test and measurement applications, followed by electric vehicles, and the Internet of Things (IoT).



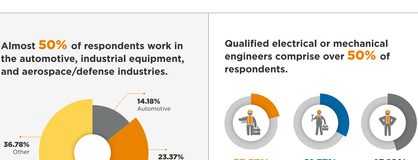
The biggest challenges facing the test and measurement industry are testing complexity, finding the right hardware components and testing cost spike.



The most critical innovations for test and measurement engineers are the ability to gather more data at speed, optimizing signal integrity, and providing remote connectivity.



Respondents ranked stability and accuracy, hardware reliability, and signal integrity as the most important requirements for test and measurement equipment.



Almost 45% of the currently deployed test and measurement equipment require wireless connectivity.