

# Robots in workplace contribute to burnout, job insecurity

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Brake drum manufacturing robot. Credit: *Journal of Applied Psychology* (2022). <https://www.apa.org/pubs/journals/releases/apl-apl0001045.pdf>

Working alongside robots may contribute to job burnout and workplace incivility, but self-affirmation techniques could help alleviate fears about being replaced by these machines, according to research published by the American Psychological Association. Researchers found that workers in the U.S. and parts of Asia feel job insecurity from robots, even in industries where robots aren't being used, and those fears may not be justified, said lead researcher Kai Chi Yam, Ph.D., an associate

professor of management at the National University of Singapore.

"Some economists theorize that robots are more likely to take over blue-collar jobs faster than white-collar jobs," Yam said. "However, it doesn't look like robots are taking over that many jobs yet, at least not in the United States, so a lot of these fears are rather subjective."

Researchers conducted experiments and analyzed data from participants in the U.S., Singapore, India and Taiwan. The study was published online in the *Journal of Applied Psychology*.

Working with [industrial robots](#) was linked to greater reports of burnout and [workplace incivility](#) in an experiment with 118 engineers employed by an Indian auto manufacturing company.

An online experiment with 400 participants found that self-affirmation exercises, where people are encouraged to think positively about themselves and their uniquely human characteristics, may help lessen workplace [robot](#) fears. Participants wrote about characteristics or values that were important to them, such as friends and family, a sense of humor or athletics.

"Most people are overestimating the capabilities of robots and underestimating their own capabilities," Yam said.

Fears about job insecurity from robots are common. The researchers analyzed data about the prevalence of robots in 185 U.S. [metropolitan areas](#) along with the overall use of popular job recruiting sites in those areas (LinkedIn, Indeed, etc.). Areas with the most prevalent rates of robots also had the highest rates of job recruiting site searches, even though [unemployment rates](#) weren't higher in those areas. The researchers theorized that people in these areas may have felt more job insecurity because of robots, but that there could be other reasons, such

as people seeking new careers or feeling dissatisfied with their current jobs.

Another experiment comprised 343 parents of students at the National University of Singapore who were randomly assigned to three groups. One group read an article about the use of robots in businesses, the second group read a general article about robots, and the third read an unrelated article. Then the participants were surveyed about their job insecurity concerns, with the first group reporting significantly higher levels of job insecurity than the two other groups.

While some people may have legitimate concerns about losing their jobs to robots, some [media coverage](#) may be unnecessarily heightening fears among the general public, Yam said.

"Media reports on new technologies like robots and algorithms tend to be apocalyptic in nature, so people may develop an irrational [fear](#) about them," he said.

**More information:** The Rise of Robots Increases Job Insecurity and Maladaptive Workplace Behaviors: Multi-Method Evidence, *Journal of Applied Psychology* (2022). [www.apa.org/pubs/journals/rel...s/apl-apl0001045.pdf](http://www.apa.org/pubs/journals/rel...s/apl-apl0001045.pdf)

Provided by American Psychological Association

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