2024Industrial Technology Officers Organization Survey



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A message from the authors

Welcome to our first annual *Industrial Technology Officers Organization Survey*. For this report, Heidrick & Struggles compiled data from a survey of 57 senior-level executives in industrial technology companies around the world, with respondents primarily in the United States and Germany. We hope to expand the regional scope in future reports.

We hope you enjoy reading the report. As always, suggestions are welcome, so please feel free to contact us—or your Heidrick & Struggles representative—with questions and comments.

With warmest regards,

Methodology

In an online survey fielded in the summer of 2024, we asked participants to provide information on their demographics, role, and organization. All data collected was self-reported by the survey respondents and has been aggregated.

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On confidentiality

The industrial technology officers organization trends survey, 2024, was conducted on an anonymous basis.

Introduction

The next phase of the Fourth Industrial Revolution is well underway at companies around the world: a people-driven, tech-powered transformation of business operations—and growth.

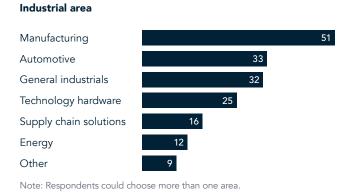
Companies at the forefront of this change are cognizant of the fact that technology alone—even artificial intelligence technology—won't get them to a better state. They must have the right leadership in place, those who understand where operational improvements are needed and who can implement change in a timely fashion.

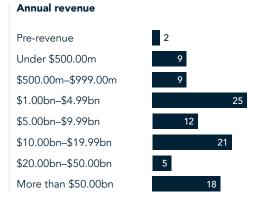
To understand the journey of industrial organizations seeking to make this step change, Heidrick & Struggles recently surveyed leaders from industrial technology companies, primarily in Germany and the United States. The executives who were surveyed do not see their organizations as laggards, for the most part: nearly half say they are about as advanced in their industrial transformation as their peers.



Respondent role and company information

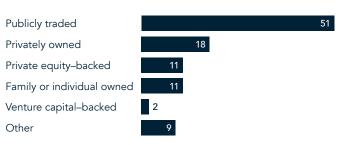
Company information (%)





Ownership structure

Company headquarters Germany 42 United States 37 Other 21



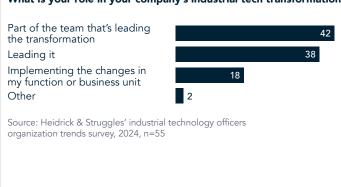
Note: Numbers may not sum to 100%, because of rounding. Source: Heidrick & Struggles' industrial technology officers organization trends survey, 2024, n=57

Current role information (%)

organization trends survey, 2024, n=57

General management (eg, business unit leader, P&L leader) Technology, data, or cybersecurity Sales or go-to-market 5trategy Finance Supply chain management/logistics Marketing and customer engagement or product management Manufacturing Procurement Other Source: Heidrick & Struggles' industrial technology officers

What is your role in your company's industrial tech transformation?



Putting operational efficiency first

While artificial intelligence (AI) seems to dominate the headlines and conference agendas, integrating AI solutions is not the top current goal for the implementation of industrial tech. Instead, companies are emphasizing using technology to drive operational efficiency and sustainability.

The hard supply chain lessons learned during the Covid-19 pandemic remain top of mind, executives indicate. Companies are keen to use the operational improvements industrial technology can deliver to ensure they are better prepared for any disruption. The concern for sustainability, meanwhile, signals a clear understanding that, while transformation may be framed as a shift toward digital tools and processes, industrial companies remain large consumers of water, power, heating, and cooling, all costs and resource usages that are increasingly under scrutiny.

Company's current industrial tech transformation (%)

How advanced is your company's industrial tech transformation compared to peers?

We have significant room for improvement
Slightly below our most direct competitors
About the same as our most direct competitors
Leading
Among the best



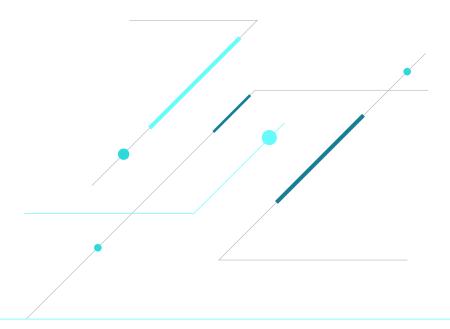
Note: Numbers may not sum to 100%, because of rounding.

What are the top goals for your company's industrial tech transformation?

Operational efficiency
International growth 31
Improving operational sustainability 27
Software enablement 25
Developing a more diversified business 22
Integrating AI solutions 16
Regional growth 13
Other 7

Note: Respondents could select up to two goals.

Source: Heidrick & Struggles' industrial technology officers organization trends survey, 2024, n=55



Evolving talent needs

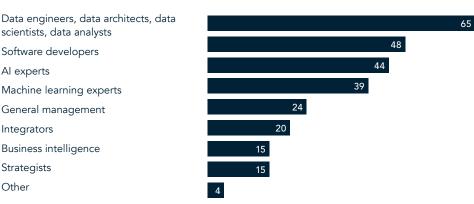
A majority of the executives we surveyed felt that they had a strong team around them to drive transformation and that they can now attract the talent they need on a contract, project, or full-time basis.

General attitudes regarding industrial tech transformation (%) ■ Strongly agree ■ Somewhat agree ■ Somewhat disagree ■ Strongly disagree ■ Don't know Industrial technology is directly included in our business strategy I have the right leadership team to achieve our goals I can attract the talent I need on a contract or project-specific basis 25 I can invest in learning and development to build team capabilities I have adequate executive support to build the industrial tech program my company needs 4 2 I have adequate funding to build the industrial tech program my company needs 58 24 My organization is ready to embrace change and transformation 45 I can attract the talent I need on a full-time basis 49 My organization has the appropriate bench strength to keep pace with new trends in industrial technology Note: Numbers may not sum to 100%, because of rounding. Source: Heidrick & Struggles' industrial technology officers organization trends survey, 2024, n=55

When survey respondents were asked to identify the roles that they are prioritizing, they pointed to data engineers, software developers, machine learning experts, and Al experts. Sixty-five percent are prioritizing the hiring of people from across the data field: engineers, architects, scientists, and analysts. Business intelligence experts and strategists have fallen to the bottom of the needs.

Talent considerations: Target roles and functions (%)

Prioritized roles/functions



Note: Respondents could choose more than one role/function. Source: Heidrick & Struggles' industrial technology officers organization trends survey, 2024, n=54 Respondents to the survey most often said that their companies are finding additional expertise by hiring external talent full-time, followed by developing expertise internally.

Talent considerations: Additional expertise (%)

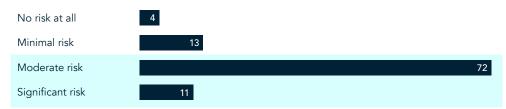
How is your company seeking additional expertise?



Respondents are concerned about future talent. Forty percent expressed concern about their bench strength, and a notable 83% are concerned with their current level of recruitment and retention, pointing to a lack of preparation for the future.

Talent considerations: Recruitment and retention (%)

How big a risk is your company's current level of recruitment/retention?

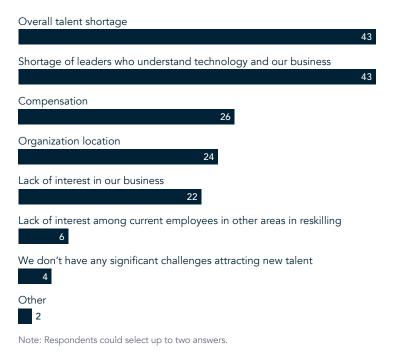


Source: Heidrick & Struggles' industrial technology officers organization trends survey, 2024, n=54

Asked for the greatest challenge in attracting new talent, 43% said there is a shortage of leaders who understand both technology and business.¹ Top executives in industrial tech companies today must have a balance of hardware and software experience. They must understand the impact of these two types of technologies on the bottom line, communicate the benefits to others, and influence them to adopt these technologies in their areas of responsibility.

Talent considerations: Challenges in attracting and retaining talent (%)

Attracting new talent



The rate of transformation is also a factor in retaining talent. Fifty-seven percent of respondents said that slow progress on digital transformation is affecting their ability to hold on to good people, compared to 28% who said that compensation was an issue. There is clearly a demand for talent, and organizations are finding that employees want to be associated with leading-edge organizations.

Retaining current talent

Slow progress on digital transformation

57

Compensation

28

Lack of opportunity for advancement

28

Organization location

19

Lack of learning and development opportunities

15

We don't have any significant challenges retaining talent

13

Other

2

Note: Respondents could select up to two answers.

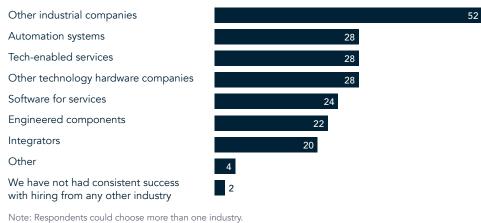
Source: Heidrick & Struggles' industrial technology officers organization trends survey, 2024, n=54

This is similar to concerns we have seen in the results of our surveys of leaders across functions regarding the use of Al—across functions, a top-five challenge leaders cited in building Al expertise was limited availability of leaders who can combine Al and business expertise. For more, see "How functional leaders are using Al—and barriers to progress," Heidrick & Struggles, heidrick.com.

So where are companies finding the industrial tech leaders they're hiring? Companies are mostly looking in other industrial companies—that is, among their counterparts. Only 28% are looking beyond their sector to industries such as automation systems, tech-enabled services, or technology hardware companies. Fewer still are looking to software companies or engineered components and integrators. This kind of self-imposed constraint is not limited to industrial technology companies; many economic sectors stay resolutely within their own worlds and do not look to see what talent could be redirected from other quarters.

Talent considerations: Target industries (%)

Industries where talent is typically found



Source: Heidrick & Struggles' industrial technology officers organization trends survey, 2024, n=54

However, some respondents suggest that branching out to find the right technical talent could help them address the challenges they face in their transformations. Forty-three percent said incorporating new technology into existing products or services is a barrier to transformation, while 26% pointed to the difficulty of developing new technology-enabled products or services.

What have been the biggest barriers in the transformation process? (%)

Implementing new technology into existing products or services

43

Finding the right talent

37

Consistent leadership support

28

Developing new technology-enabled products or services

26

Funding

19

Finding the right balance between product and service revenue

13

Customer interest

2

Other

Note: Respondents could select up to two answers.

Source: Heidrick & Struggles' industrial technology officers organization trends survey, 2024, n=54

Reserving space for Al

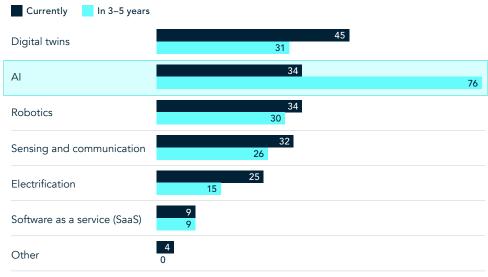
Integrating artificial intelligence may not be the top goal for industrial transformation now, but AI is very much on the minds of the leaders we surveyed. While 34% said their companies are already working with AI, 76% expect it to have a significant impact on their business in the next three to five years.

No other technology is expected to have that prominence, and some that are in high usage now, such as digital twins,² are seen as likely to decline. Forty-five percent of respondents said their companies now use digital twins; in the next three to five years, only 31% expect the technology to have a significant impact on business.

By reserving space for AI in their operations in three to five years' time, leaders suggest they may have learned from earlier waves of investment in what seemed to be promising technologies but which ultimately didn't deliver. With AI, leaders may be giving the technology time to shake off some of its early bugs and missteps—and better quantify its benefits.

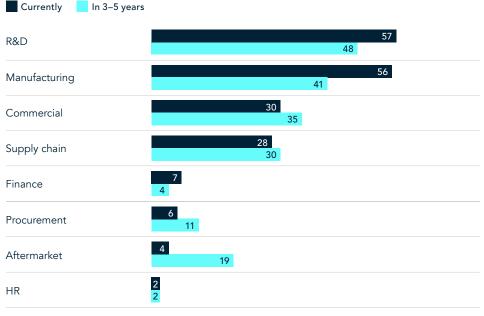
It is also worth noting another rising priority uncovered by our survey: the aftermarket. Currently, just 4% of respondents said that industrial technology has an impact on the aftermarket. But in three to five years' time, they see that rising to 19%. It is likely that, once companies have identified their most successful new products, they will also see ways to gain additional revenue from aftermarket sales and service.

Which of the following technologies are you currently working with most? Which do you expect to have the most significant impact on your business 3–5 years from now? (%)



Source: Heidrick & Struggles' industrial technology officers organization trends survey, 2024, n=54

In which of the following functions at your company does industrial technology currently have the greatest impact? In which do you expect industrial technology to have the greatest impact in 3–5 years?



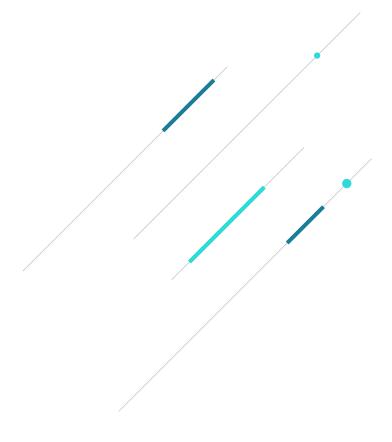
Source: Heidrick & Struggles' industrial technology officers organization trends survey, 2024, n=54

² Computer-simulated models of products and systems that can make it easier to monitor and maintain the real versions of these things

Steeling themselves for the future

No matter how advanced they consider their companies to be in their transformation, the leaders we surveyed know their companies must do even more to remain competitive in the future. That will take technology, to be sure, and that technology will have to prove its worth.

But, as with previous industrial revolutions, there is a human element to consider, and that could be challenging. Companies need people who are comfortable working with industrial technology to a greater extent than ever before, and that includes both first-line managers and C-suite executives. To be leaders in the industrial technology transformation ahead, companies will need to focus their efforts to find and grow the right talent.



Industrial Practice

Heidrick & Struggles' Industrial Practice helps industrial companies identify and recruit the leaders they need to succeed in this diverse sector.

Leading industrial companies need innovative global leaders who possess the strategic, operating, and financial skills required to win in this complex environment. They need commercially focused leaders who can develop distinctive value-added solutions. And, above all, they need leaders who have the ability to make both an immediate impact and a long-term contribution.

Our Industrial Practice experts combine unparalleled search resources with a deeply consultative approach, developing the ideal candidate profile based on each client's unique competitive challenges, business objectives, and leadership culture.

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