# EMPLOYER PERCEPTIONS OF IT APPRENTICESHIPS

#### February 2018

Employers have been experiencing the highs and lows of recruiting and retaining employees for years, with even more challenging times predicted as the forces of digital transformation accelerate. As such, companies, educators, and policy makers increasingly recognize the need for new approaches to developing and nurturing talent. This entails continued experimentation in leveraging the full suite of training methodologies and tools, as well as the further exploration of alternatives to the traditional 4-year degree that focuses on equipping candidates with job-ready skills and a viable career pathway.

#### **KEY POINTS**

# Employers face a challenging hiring landscape, and expect it to become even more challenging

Most hiring managers describe the process of filling openings with the "right" candidate at their organization as challenging (57% NET of somewhat + very challenging). For the remaining 43%, it's been manageable over the past 12 months. But when looking out over the next 2 years, 67% anticipate challenging times for hiring ahead. Furthermore, nearly all (99% NET) mark at least one specific challenge they currently endure such as finding candidates with the right level of experience, finding candidates with the right "kills, and the pool of quality candidates in the local region.

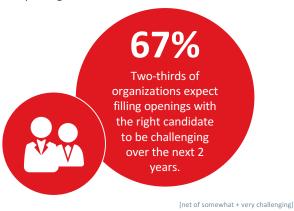
# Most organizations are open to trying new methods to address hiring challenges

Given the desire—and need—for employers to 'get it right' when hiring new employees, it's perhaps unsurprising that two-thirds have changed or tried out different recruitment tactics over the past 1-2 years to help ease hiring challenges (67% NET of moderately + significantly changed). Also considering the permeation of technology in numerous business processes, there's little excuse for employers not to explore newer types of recruiting methods such as social media campaigns or contests, mobile apps, or analytics. Even more substantial approaches are worth testing out such as partnering with a local community college, working with an association other non-profit group, or trying an apprenticeship for a non-traditional role.

# Majority of hiring managers view apprenticeships positively and would consider IT apprenticeship

Offhand, nearly 6 in 10 hiring managers have a generally positive view of apprenticeships, with most of the remainder expressing a neutral perception (38%) versus negative opinion (2%). Regarding apprenticeships for information technology (IT) occupations, 8 in 10 think the concept has merit (NET of probably + definitely has merit). However, less than half have heard of such a program applied to IT roles. (48%). Nevertheless, 83% could see their company trying out a formal, registered IT apprenticeship program (NET of 44% probably + 39% definitely).

Among the potential benefits organizations may realize, or have realized, from implementing an apprenticeship program are training workers to suit their needs, addressing skills gaps early in a worker's career, and engaging with local schools, community colleges and other feeders.



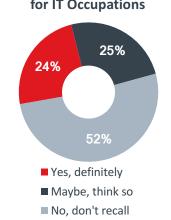




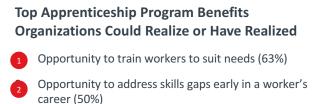
In addition to the 87% NET of organizations that have tried 'newer' types of recruiting methods, a similar portion have relaxed hiring requirements or expanded roles/audiences over the past 1-2 years to help fill open positions (86% NET). For instance, over a third (34%) have expanded training (e.g. more training provided for new hires), 31% increased the amount of staff training/cross-training, and 3 in 10 opened certain positions at different levels (e.g. more entry- or mid-level positions). Looking ahead, nearly three-quarters expect training for new hires (73%) and training/professional development for existing staff (70%) to grow in importance over the next 2 years (NET of somewhat + significant growth).

More specifically regarding IT positions, nearly half of the employers in this study (across a mix of industries and sizes) indicate having openings for IT-related jobs over the past 12 months (47%). In comparison, this is second only to operations job openings (49%), and above other areas such as customer service (44%), sales/marketing (32%), and finance/accounting (32%).

Besides the hiring and retention challenges employers deal with in general, there are a myriad of issues in particular regarding the IT workforce and filling the tech pipeline.







- Opportunity to engage with local schools, community colleges & other feeders (44%)
- Opportunity to hire an employee loyal to the company (43%)
- 5 Opportunity to hire a worker ready to contribute from day one (43%)
- 6 Opportunity to attract a more diverse pool of candidates (41%)

[See CompTIA's *Assessing the IT Skills Gap*.] Perhaps then it is no wonder that the great majority of hiring managers think apprenticeship programs could be an approach relevant to most IT occupations (44%) or to some (47%) such as IT support/help desk or network administration.

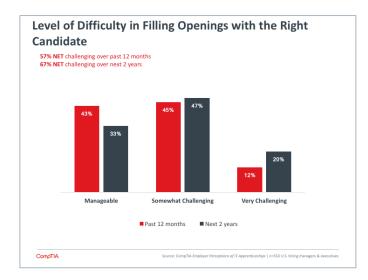
While most employers see potential benefits to implementing an apprenticeship program (95% NET), top concerns include finding the "right" apprentice (52%), staff time to manage (48%), and retention after completion (37%).

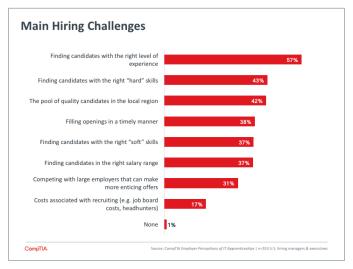
Nonetheless, 80% believe the concept of apprenticeships for certain types of IT occupations has merit (NET of probably + definitely has merit). And despite the potential hurdles, most view a formal, registered apprenticeship program as worth the requirements to obtain benefits such as tax credits (86% NET of somewhat + mostly positive). Moreover, 91% NET indicate that one or more resources would be helpful to their organization in exploring, starting or running an IT apprenticeship program including training (49%), partnerships (40%), continued professional development support for employees (37%), and assessments (36%), among several others.



Copyright (c) 2018 CompTIA Properties, LLC, All Rights Reserved | CompTIA.org | research@comptia.org

#### **APPENDIX I – THE HIRING LANDSCAPE**





## Most Organizations Trying Different Recruiting Tactics Degree Organizations Changed or Tried **Different Recruiting Tactics** ewer' types of methods tried fo 51% Significantly changed Moderately changed Little or no change Over nast 1-2 years ComoTIA [+3% Not applicable] Source: CompTIA Employer Perceptions of IT Apprenticeships | n=553 U.S. hiring managers & executive

## What's Worked Well About 'Newer' Recruiting Methods

Sampling of Comments

- "I feel that we have reached more, diverse people than ever before. These people didn't think of government as a place of employment where they could use the skills they've learned, but now see the opportunities available." [partnership with local community college]
- "In opening ourselves to partnerships with local universities/colleges, we can have a wider pool of relevant applicants at an earlier and more flexible point in their career, where we can grow them and mold them to our needs at a more scalable budget." [partnership with local community college]
- "In the case of working with associations, it has introduced us to a talent pool we may not have otherwise found. | With AI, it's allowed us to eliminate some avenues of recruitment and some candidates." (partnership with an association | artificial intelligence ]
- "Our increase in the use of social media brought a lot more awareness to our business which increased interest and led to more candidates seeking work with our company." [social media campaigns / contests]
- "Wider range of candidates and has reached farther than our own community." [mobile recruiting app]
- "Automation, objectivity." [data analytics / predictive analytics]
- "It has allowed a trial period to see if the person has the right skills for the position." [apprenticeship for nontraditional role]
- "The hiring process is enhanced by longer-term acclimation and improved skills application." [apprenticeship for non-traditional role] CompTIA

hips | n=553 U.S. hiring ma ons of IT Apprent

#### 'Newer' Types of Recruiting Methods Tried Cont.

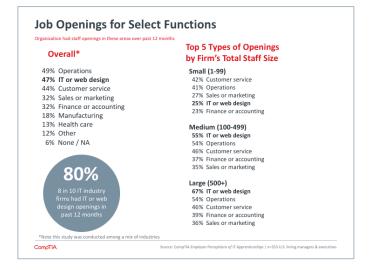
		INDUSTRY				JOB OPENINGS*		
Recruiting Method Trying / Exploring	OVERALL	п	Non-IT		Medium 100-499	Large 500+	Had IT Openings	Didn't Have IT Openings
Social media campaigns / contests	41%	35%	43%	35%	40%	51%	47%	36%
Partnership with local community college	38%	35%	39%	32%	44%	41%	44%	34%
Data analytics / predictive analytics	26%	46%	20%	18%	27%	35%	38%	15%
Partnership with association / non-profit	23%	26%	22%	16%	31%	23%	28%	18%
Mobile recruiting app	22%	28%	20%	16%	24%	27%	29%	16%
Apprenticeship for non-traditional role	21%	26%	19%	21%	21%	20%	24%	18%
Al, e.g. automated recruiting assistant	14%	30%	10%	10%	17%	18%	19%	10%
None	13%	6%	16%	22%	9%	7%	7%	19%
(%s in bold indicate statistically significant diffe	rence across s	ub-groups]					*Past :	L2 months
ATTqmo:	Sc	urce: CompTl	A Employer Per	ceptions of IT.	Apprenticeship	n=553 U.S.	hiring manage	s & executive

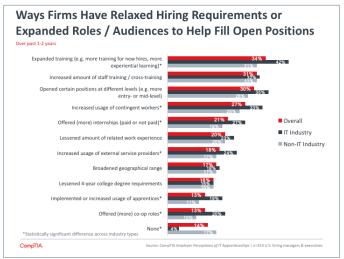
#### What About 'Newer' Recruiting Methods Didn't Meet Expectations Sampling of Comments

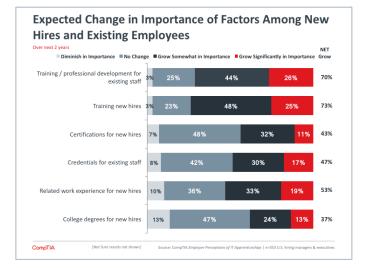
- "Candidates are not always immediately available due to school," [partnership with local community college]
- "Even though they are graduated in technical field, they are not much well experienced for a company's success." [partnership with local community college]
- "Social Media Not always as thorough / takes time to update with most recent information. | Auto-generated Social media - Not analys as thorough 7 kines time to update with most recent momentum. I not generated recruitment systems - Very keyword specific... If there was a spelling error, or something did not match up to the exact parameters, it may have skipped over necessary information or candidates. We screen as well, but it was used to help attract more applicants. I Employee Referrals - Not always the most reliable / issue of someone who is likable, vs. best fit for the job." (social media campaigns / contests | artificial intelligence | other - employee referrals]
- "A slight majority of the applicants who came to us through our social media outlets turned out to be unreliable and short-term. They always seemed to be looking for the next thing rather than being present in the moment." [social media campaigns / contests]
- "Missing the human side of hiring." [mobile recruiting app]
- "We haven't seen any benefits of data analytics yet." [data analytics / predictive analytics]
- "In some cases, senior staff is overburdened with additional assessment protocols." [apprenticeship for nontraditional role]
- "It is certainly an investment and can take time. It also needs to be executed properly." [apprenticeship for non-traditio nal role

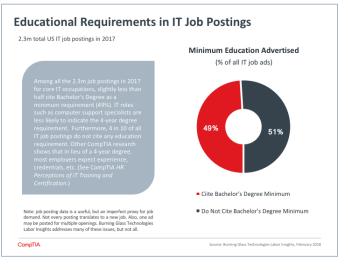
CompTIA

## **APPENDIX I – THE HIRING LANDSCAPE CONT.**



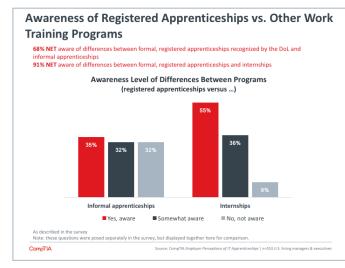


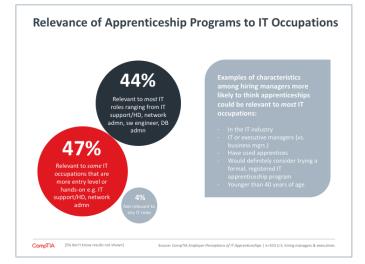


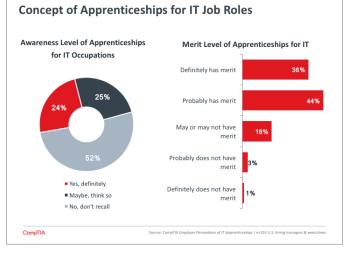


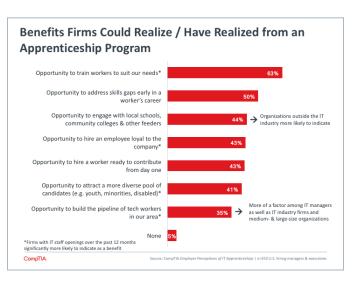
#### **APPENDIX II – APPRENTICESHIPS**





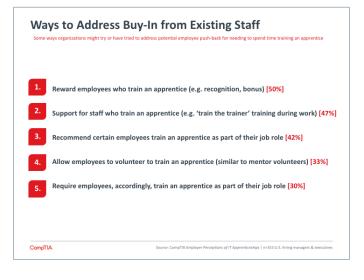


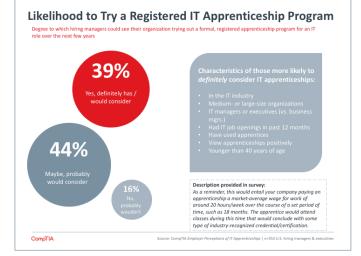




### **APPENDIX II – APPRENTICESHIPS CONT.**

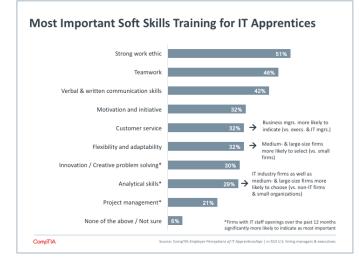
	COMPANY SIZE CATEGORY BY NUMBER OF EMPLOYEES							
	Small (1-99 employees)	Medium (100-499 employees)	Large (500+ employees)					
Finding the 'right' apprentice (52%)	Finding the 'right' apprentice (55%)	Staff time to manage (52%)	Staff time to manage (51%)					
Staff time to manage (48%)	Staff time to manage (42%)	Finding the 'right' apprentice (48%)	Finding the 'right' apprentice (51%)					
Retention after program completion (37%)	Lack of funding to start (37%)	Retention after program completion (42%)	Retention after program completion (36%)					
Lack of funding to start (31%)	Retention after program completion (34%)	Conforming to federal program requirements (31%)	Lack of funding to start (29%)					
Conforming to federal program requirements (29%)	Conforming to federal program requirements (29%)	Organizational / executive buy-in (29%)	Getting buy-in from staff for training an apprentice (29%)					





#### Most Helpful Resources for an IT Apprenticeship Program

Resources Most Helpful for Hiring Managers / Firms to Explore, Start or Run an IT Apprenticeship Program	OVERALL	INDUSTRY					JOB ROLE		
			Non-IT				Executive Mgmt.	Business Mgmt.	IT Mgmt.
Training resources	49%	52%	48%	47%	50%	52%	39%	49%	59%
Partnerships (with an association, educational institution, etc. to obtain candidates, for example)	40%	35%	41%	37%	43%	39%	41%	40%	41%
Continued professional development support for employees	37%	34%	38%	27%	43%	44%	30%	36%	46%
Assessments (knowledge, skills, etc.)	36%	42%	34%	31%	42%	37%	32%	40%	35%
Career path resources for apprentices	33%	39%	31%	28%	35%	37%	25%	32%	39%
Professional certification programs	32%	38%	30%	30%	34%	33%	29%	29%	40%
Setting up a test pilot	29%	27%	30%	24%	31%	33%	27%	32%	31%
Appropriate mix of program standards with flexible options (e.g. various completion times depending on job level)	25%	28%	24%	24%	27%	24%	25%	26%	27%
	9%	3%	11%	15%	4%	5%	11%	11%	2%



Copyright (c) 2018 CompTIA Properties, LLC, All Rights Reserved | CompTIA.org | research@comptia.org