Attracting and Retaining Top STEM Talent

Three Strategies for Managing Talent in the Fields of Science, Technology, Engineering, and Mathematics

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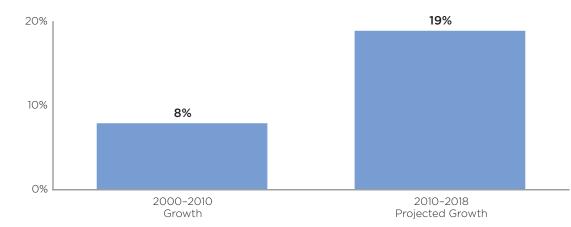
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STEM employment is projected to more than double by 2018.

 STEM is an acronym that refers to the disciplines of science, technology, engineering, and mathematics.

STEM IS A CRITICAL TALENT PRIORITY FOR ORGANIZATIONS

Past and Projected Growth in STEM Employment



Source: US Bureau of Labor Statistics, Employment Projections, US Department of Commerce, 2011.

"We're looking for **new areas of potential** growth. Through our technology development and our investment in R&D and innovation, we've been able to renew our portfolio."

> Dr. João Bento, CEO Efacec Capital SCSP SA

Source: "Interview with Dr. João Bento," PriceWaterhouseCoopers, accessed 23 September 2014, http://www.pwc.com/gx/en/ceo-survey/2013/ interviews/joao-bento.html. "STEM is the heart of Innovation. Innovation drives growth, profits, and the roles of the future."

> Michael Araten, CEO K'NEX Brands

Source: "Today's CEO Leader in STEM: Michael Araten of K'NEX Brands," STEMconnector, 28 October 2013, http://blog.stemconnector.org/ todays-ceo-leader-stem-michael-araten-k%E2%80%99nex-brands.



Countries have made great strides to increase their available STEM talent.

INCREASING STEM TALENT POOL IS A GLOBAL PRIORITY

Two Indicators of Multinational STEM Focus

Countries Creating Special Commissions to Support STEM Talent

Sample of Multinational Organizations Launching Commissions on STEM-Related Issues



Commission on Science and Technology for Development



Policy Partnership on Science, Technology, and Innovation



THE WORLD BANK

Partnership in Applied Sciences, Engineering, and Technology 2

Countries Revising Immigration Laws to Attract STEM Talent from Other Regions

In the News: Revising Immigration Laws to Attract STEM Talent

"Russia eases immigration rules for foreign specialists"

Source: Marina Obrazkova, "Russia to ease immigration rules for skilled workers and graduates," Russia Behind the Headlines, 2 August 2013, http://rbth.asia/ news/2013/08/02/russia_to_ease_immigration_rules_for_skilled_workers_ and_graduates_48345.html.

"Relaxation in immigration rules: Germany attracts qualified & skilled workers from India"

Source: Ishani Duttagupta, "Relaxation in immigration rules: Germany attracts qualified & skilled workers from India," The Economic Times, 20 March 2013, http://articles.economictimes.indiatimes.com/2013-03-10/ news/37581702 1_skilled-professionals-skilled-workers-card-scheme.

"US Plan Aims to Draw Immigrants With Technology Skills"

Source: Julia Preston, "U.S. Plan Aims to Draw Immigrants With Technology Skills," The New York Times, 6 March 2014, http://www.nytimes.com/2014/05/07/ us/politics/us-plan-aims-to-draw-immigrants-with-technology-skills.html?_ r=1.

> "Expat immigration alert: Engineers needed in the UK..."

Source: Majorie van Leijen, "Expat immigration alert: Engineers needed in the UK...," Emirates247, 12 January 2014, http://www.emirates247.com/news/expatimmigration-alert-engineers-needed-in-the-uk-2014-01-12-1.534343.

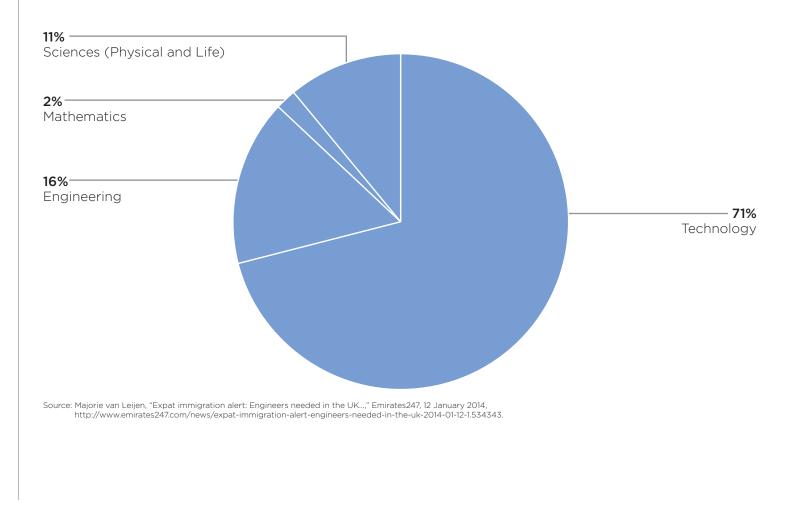


Within an organization, STEM talent generally works in the technology, engineering, and research and development (R&D) functions.

STEM ROLES DEFINED

According to the Bureau of Labor Statistics (BLS), STEM talent includes employees in the **IT, R&D**, and **engineering and design** functions.

Percentage of STEM Jobs by Discipline

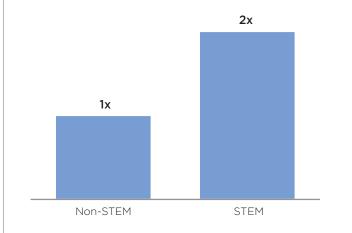


Each year organizations make significant time and financial investments to build a strong pool of STEM talent.

- Recruiters reach out to STEM talent twice as often as they do other talent.
- The average global cost of recruiting STEM talent is over US\$11,000.

ORGANIZATIONS INVEST SUBSTANTIAL TIME AND MONEY TO ATTRACT STEM TALENT

Number of Times STEM and Non-STEM Employees Were Contacted by Recruiters in the Past Six Months^a



n = 2,789. Source: CEB 2014 Employment Branding Effectiveness Survey. ^a Indexed. Average Cost of Recruiting STEM Talent^b

Region	Cost of Recruiting STEM Talent (in USD)
Asia	10,604
Africa	10,704
Europe	11,417
Latin America	10,731
North America	12,309
Australia and New Zealand	11,780
Global Average	11,225

Source: CEB TalentNeuron research and analysis; CEB 2014 Talent Neuron Internal Database; CEB Turnover Cost Calculator.

^b Refers to average cost per hire, recruiter and hiring manager compensation costs, relocation and signing bonuses, and orientation expenses; does not include average starting salary for employees.

"Countries need to prioritize their investments to create a workforce that has the requisite technology skills and innovation capabilities, in addition to cultural competencies, to compete in a global economy."

Balaji Ganapathy Head of Workforce Effectiveness, North America, Tata Consultancy Services

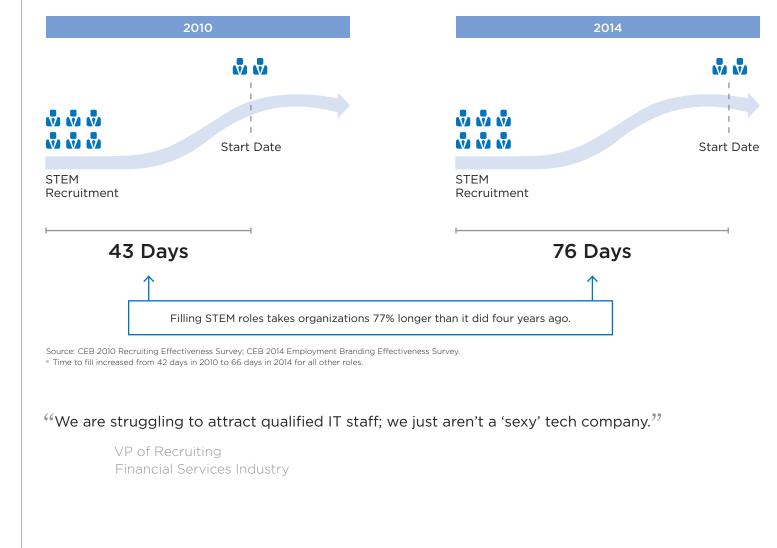
Source: Edie Fraser, "Resilience: Growth with STEM Innovation, Technology, and Job Creation," Diplomat Courier, 5 October 2013, http://www.diplomaticourier.com/news/sponsored/1830-resilience-growth-with-stem-innovation-technology-and-job-creation.

Despite these substantial investments, organizations struggle to attract STEM talent.

 Filling STEM roles takes 77% longer than it did four years ago.

DESPITE INVESTMENTS, STEM TALENT IS DIFFICULT TO ATTRACT

STEM Roles Take Longer to Fill Today Median Time to Fill for STEM Roles (Business Days)^a

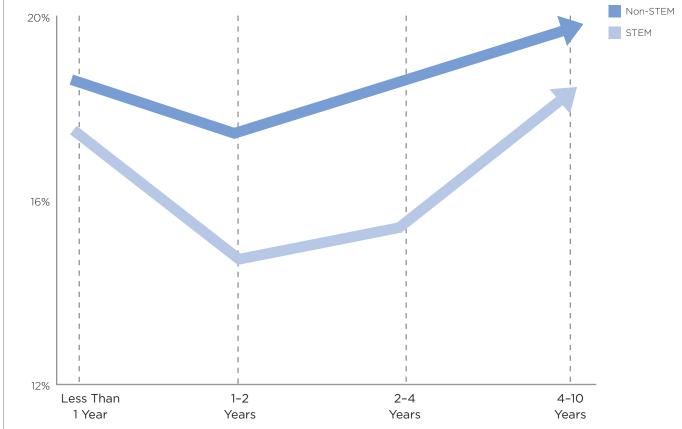


STEM talent report lower levels of discretionary effort than their peers even early in their careers.

 STEM levels of discretionary effort are lowest one to two years in role.

STEM TALENT IS LESS ENGAGED THAN PEERS FROM OTHER FUNCTIONS

STEM Talent Report Lower Discretionary Effort Than Peers Early in Their Careers Percentage of Employees Reporting High Levels of Discretionary Effort, by Tenure



Source: CEB 2014 Q1 Global Labor Market Survey.

"We have a lot of technical people who don't want to be managers. How do we make them feel appreciated so they will remain engaged?"

> Head of Talent Development Health Care Industry

Organizations continue to face major challenges with their STEM workforce.

 Managers rate only 21% of all STEM employees as highly effective at enterprise contribution.

STEM TALENT IS LESS EFFECTIVE AT ENTERPRISE CONTRIBUTION

STEM Talent Is Less Likely to Be Effective at Enterprise Contribution Than Their Peers Percentage of Employees Scoring High at Enterprise Contribution



Source: CEB 2014 Enterprise Contribution Workforce Survey.

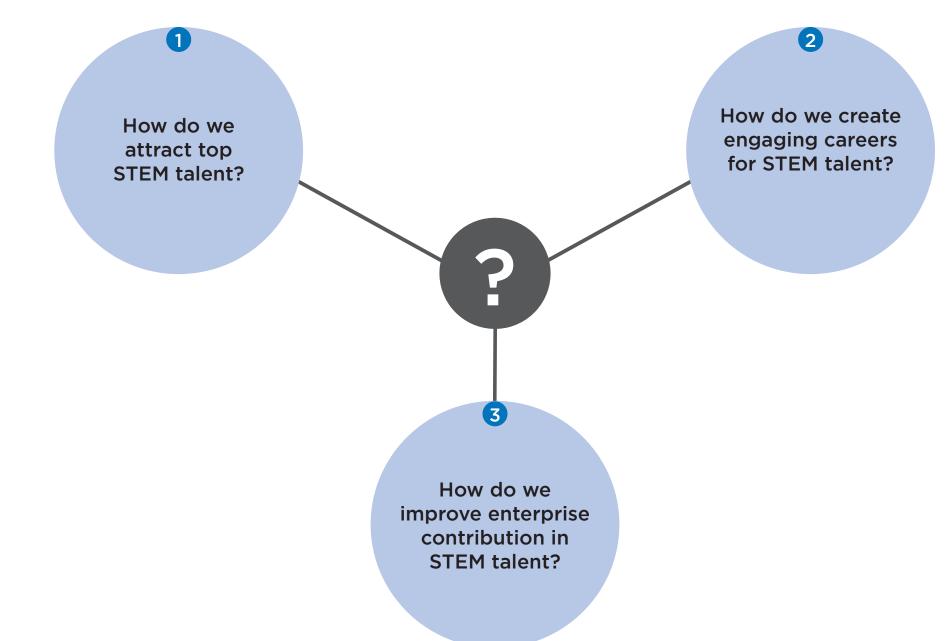
"It's impossible to get the engineers in our business unit to hold a normal conversation; they just stare at their shoes."

HRBP Manufacturing Industry

Enterprise Contribution

Enterprise contribution is the combination of an employee's effectiveness at his or her individual tasks as well as his or her effectiveness at contributing to and receiving contributions from others. It is a measure of performance in the new work environment.

KEY QUESTIONS ABOUT STEM TALENT



THREE STRATEGIES TO ATTRACT AND RETAIN TOP STEM TALENT

Strategy	Incorporate Development EVP into STEM Recruitment Strategies	Rethink the Traditional STEM Career Path to Drive Engagement	Embed Collaborative Responsibilities and Behaviors into STEM Job Success
Insight	Attract STEM Talent with Opportunities for Development, Not Just Expensive Compensation Packages	Empower STEM Talent To manage Their Own Careers, Don't Just Force Them Through the Traditional Career Ladder	Incorporate Enterprise Contribution into STEM Roles, Don't Just Convince Them of the Value of Collaboration
Best Practice	Assess areas to invest in competitive differentiation against critical EVP attributes.	Equip employees to drive career conversations.	Embed responsibility for fostering connections into employees' roles.
	🕤 Scotiabank	縃 mitchell	E xonMobil
	Employment Value Proposition (EVP) Redesign	Employee-Owned Performance Conversations	Connection-Making Exemplars
		Embed leadership competencies in development across employee careers.	
	APPENDIX	🚺 Intelsat	
	Incorporate conversations on long-term career development into internship programs.	High-Performance Leadership Academy	
	Principal Financial Group	Reduce reputation risk by creating projects for talent to practice newly developed skills.	
	Career-Centric IT Internship	Hillshire	
		Riskless Ideas-Sharing Workshops	

Organizations pay a premium for their STEM talent.

- STEM employees earn a starting salary that is 23% higher than the national average for all employees.
- STEM talent anticipate a higher job-switching premium than other talent.

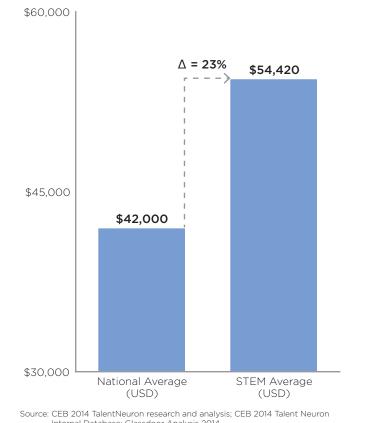
STEM SKILLS ARE PAID PREMIUM ON THE MARKET

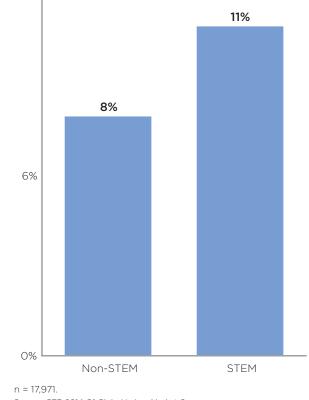
12%

STEM Talent Earns a Higher Salary Than Peers Average Starting Salary in the United States for STEM Employees Compared to the National Average

STEM Talent Job-Switching Premiums Are Higher Than Peers

Percentage Change in Total Compensation Employees Expect to Receive When Switching to a New Employer





Internal Database; Glassdoor Analysis 2014.

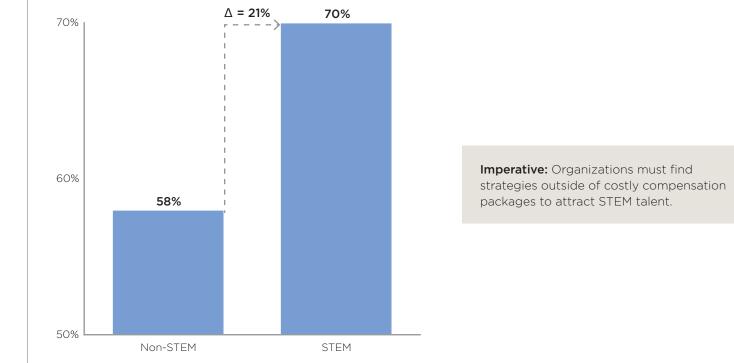
Source: CEB 2014 Q1 Global Labor Market Survey.

STEM talent is in greater demand than other talent, so organizations must look beyond compensation to attract the talent they want.

 Almost three-quarters of STEM talent have been contacted by a recruiter within the past six months.

HIGH DEMAND FOR STEM TALENT REQUIRES ORGANIZATIONS TO THINK BEYOND COMPENSATION

STEM Talent Is in Greater Demand Than Non-STEM Talent Percentage of Employees Contacted by a Recruiter Within the Past Six Months



n = 2,789.

Source: CEB 2014 Employment Branding Effectiveness Survey.

Organizations have an opportunity to base their EVP on development to attract STEM talent.

STEM and non-STEM talent are equally attracted by compensation, but STEM talent care more about development.

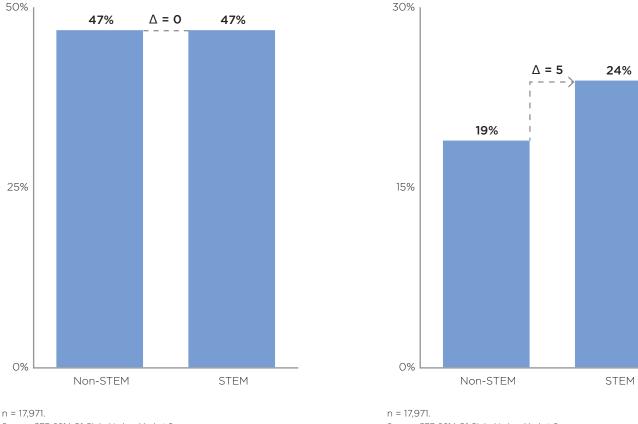
DEVELOPMENT, NOT COMPENSATION, DIFFERENTIATES THE STEM EVP

STEM Values Compensation the Same as Others

Percentage of Employees Rating Compensation Among Top Five Attributes

STEM Cares More About Development **Opportunities**

Percentage of Employees Rating Development **Opportunities Among Top Five Attributes**



Source: CEB 2014 Q1 Global Labor Market Survey.

Source: CEB 2014 Q1 Global Labor Market Survey.

Insight 1: STEM talent value development, not compensation, more than other talent. Organizations should set themselves apart during the recruitment process by basing their EVPs on development opportunities for STEM talent.

Compensation Is Still Important

Although compensation is the top EVP driver for both STEM and other employees, the difference between the groups is negligible compared to other attributes.

Many organizations attempt to incorporate development into their recruiting material but it is often overly general to the organization and buried under other material.

 Conventional job postings and recruitment web portals inconsistently communicate what development opportunities are available to STEM talent.

MOST ORGANIZATIONS' DEVELOPMENT EVPs ARE BURIED WITHIN RECRUITING EFFORTS

Development Is Hidden on Recruitment Websites *Illustrative*

Job Postings Regurgitate Standard Company Language Illustrative



Source: CEB analysis.

XYZ Company— Software Engineer, Java Requirements

- Skilled programmer
- Bachelor's degree in Computer Science
- 4-5 years' experience as a Java developer

XYZ Company is committed to a culture of innovation, growth, and teamwork. Whether you are just starting your career or are ready for the next step, XYZ Company offers you a fantastic work environment and a culture committed to helping you build a successful future.

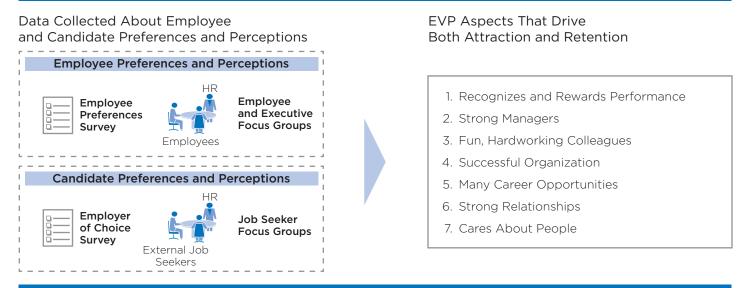
Scotiabank launches a series of surveys and uses focus groups to identify seven potential aspects of the EVP that drive candidate attraction and employee retention.

 Based on current candidate and employee perceptions of the bank, Scotiabank assesses its relative strengths and weaknesses as an employer against each of the seven potential EVP aspects.

UNDERSTAND CANDIDATE AND EMPLOYEE PREFERENCES AND PERCEPTIONS

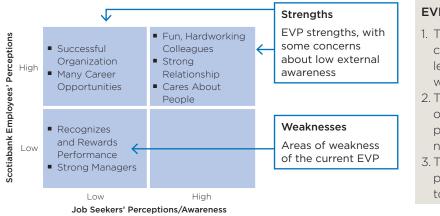


Through surveys and focus groups, HR identifies aspects of the EVP that would drive attraction...



...and assesses candidate and employee perceptions of Scotiabank against these aspects.

Assessment of Employee and Candidate Perceptions of Scotiabank



EVP Pitfalls

- The EVP is only focused on employee and candidate preferences, not perceptions, leading to misalignment between the EVP and workplace realities.
- 2. The EVP is only focused on current organizational strengths, which might not provide the level of EVP competitiveness needed.
- 3. The EVP is overly focused on either candidate preferences or employee preferences leading to attraction or retention challenges.

Source: The Bank of Nova Scotia; CEB analysis.

HR at Scotiabank ranks policies and programs by highest impact on reinforcing EVP and then prioritizes those whose perceived ROI are highest.

- To identify high-return investments, HR ranks all people-related policies and programs by relative impact on the top three aspects of its EVP.
- HR then invests more in the highest-impacting policies and programs where Scotiabank has the most room for improvement and where HR believes the talent attraction and retention return is the greatest.

Effectiveness Gap

The gap between importance of program to employees and current effectiveness at delivering program

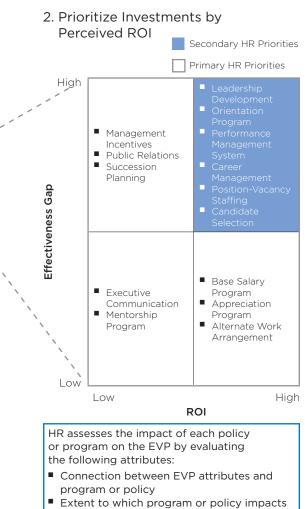
ROI

The cost of improving program relative to potential talent attraction and retention return

IDENTIFY HIGHEST-RETURN INVESTMENTS TO REINFORCE THE EVP

1. Identify High-Impact EVP Investments

	Rewarding and Recognizing Performance	Establishing Strong Relationships	Successful Company	
	Related Attributes Recognition Promotion 	Related Attributes Manager Quality Coworker Quality 	Related Attributes Senior Team Quality Company Brand 	
	Management Incentives	Mentorship Program	Leadership Development	
	Base Salary Program	Appreciation Program	Succession Planning	
High	Performance Management System	Alternate Work Arrangement	Executive Communication	
Impact	Career Management	Orientation Program	Public Relations	
	Position-Vacancy Staffing			
	Candidate Selection			
	Leading-Edge Development Program	Referral Program	Employee Share Ownership Plan	
	Financial Services MBA	Scotiabank Scholarship Program	Job-Level Protection	
Moderate Impact	Educational Assistance Program	Work Experience Programs	Town Hall Conference	
·	Institute of Canadian Bankers (ICB)	Employee Communication Policy		
		Ideas in Action		
		Pension Plan		
Low Impact		Guidelines for Employing Family		
		Suspensions, Resignations Policy		
		Occupational Health and Safety		
\uparrow		Smoking Policy		



a significant portion of the workforce

Scotiabank

Application for STEM

To identify which opportunities will have the greatest ROI for attracting STEM talent, look for areas where development at your organization is a source of competitive differentiation. Next, determine how to expose STEM talent to these aspects of your EVP during the recruiting process.

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Best Practice	Assess areas to invest in competitive differentiation against critical EVP attributes.	Equip employees to drive career conversations.	Embed responsibility for fostering connections into employees' roles.
	🖲 Scotiabank	🏘 mitchell	ExonMobil
	Employment Value Proposition (EVP) Redesign	Employee-Owned Performance Conversations	Connection-Making Exemplars
		Embed leadership competencies in development across employee careers.	
	APPENDIX	🛟 Intelsat	
	Incorporate conversations on long-term career development into internship programs.	High-Performance Leadership Academy	
	Principal Financial Group	Reduce reputation risk by creating projects for talent to practice newly developed skills.	
	Career-Centric IT Internship	Hillshire	
		Riskless Ideas-Sharing Workshops	

STEM talent report lower levels of intent to stay and discretionary effort early in their careers.

- STEM employees report significantly lower levels of intent to stay and discretionary effort than their peers, even during their first year on the job.
- Organizations that do not increase STEM talent's intent to stay risk spending over US\$15,000 per employee that leaves the organization.

Do the Math

Median STEM Voluntary Turnover Rate: **8%**

Average Number of IT and R&D Staff at an Organization:11,546

Average STEM Starting Salary: **US\$26,230**

- Average Total Cost of Turnover per Departing Employee: US\$15,560
- Average Total Cost of Turnover per Organization: US\$1,924,494

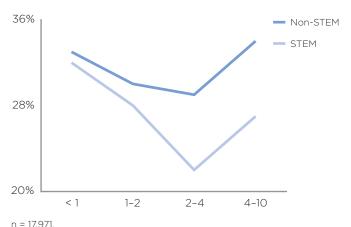
To calculate the cost of STEM turnover at your organization, please use our Turnover Cost Calculator at clc.executiveboard. com

To see the assumptions for calculating the average number of STEM talent in an organization, please refer to the appendix.

ORGANIZATIONS STRUGGLE TO ENGAGE STEM TALENT EARLY IN THEIR CAREERS

20%

Percentage of Employees Reporting High Levels of Intent to Stay By Tenure (Years) Percentage of Employees Reporting High Levels of Discretionary Effort By Tenure (Years)



16% 12% <1 1-2 2-4 4-10 n = 17.971

Source: CEB 2014 Q1 Global Labor Market Survey.

Source: CEB 2014 Q1 Global Labor Market Survey.

Business Impact of Increasing Intent to Stay

Organizations that can reduce their STEM turnover rate by five percentage points can save over US\$1.2 million annually, or \$15,560 per employee.

Non-STEM

STEM

STEM talent is least satisfied with EVP attributes related to career opportunities.

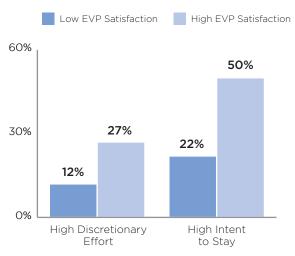
 If organizations can increase satisfaction in these attributes, they can double STEM talents levels of engagement.

IMPROVING SATISFACTION WITH CAREER OPPORTUNITIES WILL INCREASE ENGAGEMENT

STEM Talent Is Least Satisfied with Opportunity EVP STEM Employees' Satisfaction with the EVP



n = 17,971. Source: CEB 2014 Q1 Global Labor Market Survey. Increasing STEM Employees' Satisfaction with EVP Significantly Improves Engagement Impact of EVP Satisfaction on STEM Employee Engagement



n = 17,971.

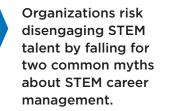
Source: CEB 2014 Q1 Global Labor Market Survey.

STEM employees who are satisfied with their EVP are more than twice as likely to report high discretionary effort and intent to stay.

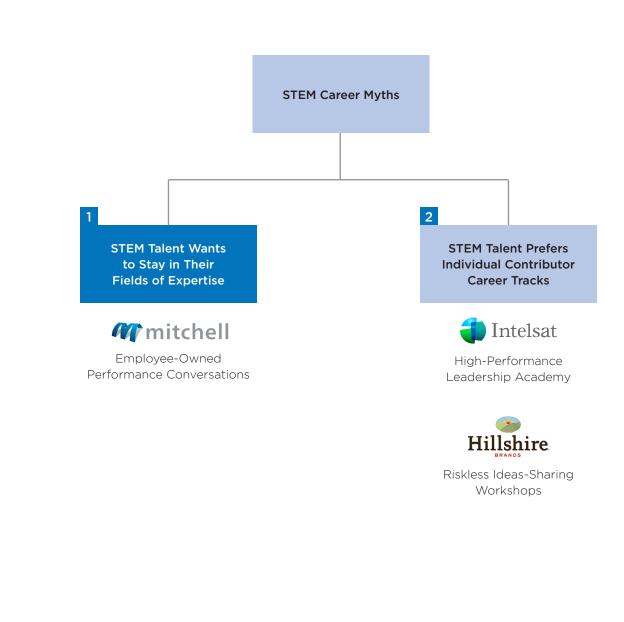
Opportunity

The 38 EVP attributes fall into five categories. The EVP attributes related to opportunity including the following:

- Future career opportunity
- Development opportunity
- Meritocracy
- Stability
- Growth rate



TWO COMMON MYTHS ABOUT STEM CAREERS



Although organizations believe that STEM talent wants to stay in their current functions, they aspire to greater variety in their careers than do other talent segments.

 STEM talent are more likely to want to learn new skills than their peers in other functions.

STEM and Non-STEM Employees Share Most Career Goals.

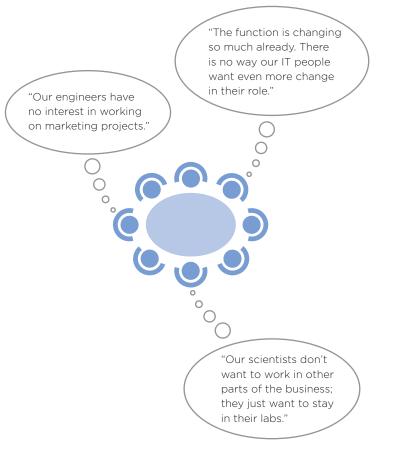
When asked to select the top two most significant goals of their career, STEM and Non-STEM employees ranked most goals at similar levels, the biggest differences between what STEM valued more than Non-STEM were the following goals:

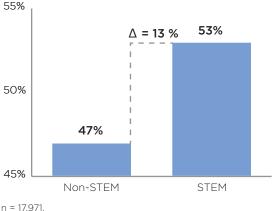
- Working on High Profile Business Projects (9%)
- Learning New Skills (6%), and
- Receiving Multiple Promotions (6%)

MANY BELIEVE STEM EMPLOYEES PREFER PREDICTABILITY, BUT THEY WANT TO LEARN NEW SKILLS

STEM Talent Is Thought to Be Hesitant to Try Different Types of Work...

...But, STEM Talent Are More Likely to Want to Learn New Skills Percentage of Employees Rating Learning New Skills Among Top Two Career Goals





Source: CEB 2014 Q1 Global Labor Market Survey.

Although STEM talent aspire to learn new skills, STEM managers are less likely to discuss career options with them.

 STEM managers are 22% less open to their talent moving to a different part of the organization, and less than one-fifth of STEM employees have even discussed possible career alternatives.

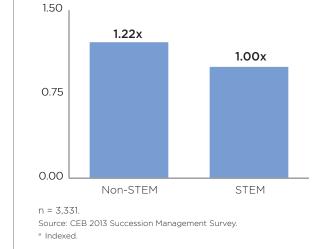
MANAGERS RELUCTANTLY DISCUSS CAREER OPTIONS WITH STEM TALENT

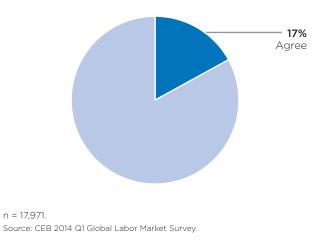
STEM Managers Are Less Open to Letting Their Employees Move Outside the Team Employees Agreeing That Their Manager Would

Be Open to Them Moving to Another Part of the Organization^a

Few STEM Managers Discuss Career Alternatives with Employees

Percentage of STEM Employees Agreeing That They Discuss Alternative Career Options with Their Managers





Insight 2: STEM talent are unaware of the career options available to them if managers are less likely to discuss alternatives. Organizations should empower STEM talent to lead career discussions with their managers and take advantage of different job opportunities.

Employees at Mitchell own monthly performance conversations, allowing them to customize performance discussions to their specific needs.

- Although most organizations strive for two-way performance conversations, managers generally run and conduct the sessions.
- Mitchell requires employees to schedule monthly performance conversations with their managers (at a minimum); it also expects employees to set the agenda and run the conversation.
- To ensure conversations are effective, Mitchell provides employees with a 1x1 worksheet they must fill out prior to meeting with their managers.

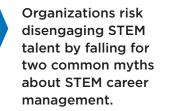
REQUIRE MONTHLY CAREER DISCUSSIONS *mitchell* WITH MANAGERS TO IDENTIFY CONCERNS EARLY

Mitchell's 1x1 Employee Conversation Template

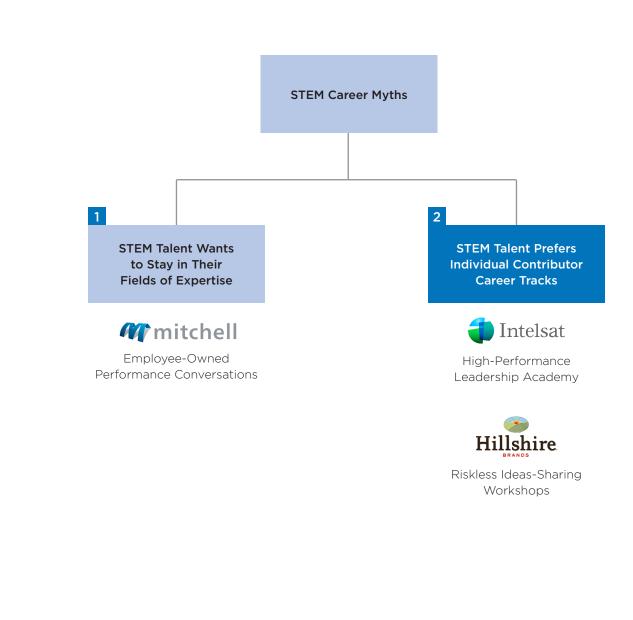
Employees direct the conversation.	Team		OUR TOP FOCUS AREAS?)	Key Action		
By identifying key liscussion items,						
both personal			•	•		
and professional, employees focus conversations with		ing List 's on the Horizon)				
managers on their specific needs.	DISCU	SSION ITEMS (WOR	K RELATED OR PERSONAL	ITEMS)		
	· •				2	
					Guided conversation	
	HOW	AM I DOING? (DISCU	JSS HOW PERFORMANCE IS	TRENDING AGAINST PRIORITI	Although employee	
	Meetin	g Expectations	Exceeding Expectations	Not Meeting Expectatio	ns 🦊 direct the	
3					conversation, the template ensures	
Employees		EGREE FEEDBACK	that it is holistic and productive.			
obtain and share 360-degree	•				Employees come	
feedback with	•				to discussions with	
managers. By owning			their managers prepared with the			
their own 360-degree feedback, employees		CAREER DEVELOPMENT ACTION ITEMS (WHAT ACTIONS HAVE/WILL YOU TAKE REGARDING YOUR DEVELOPMENT PLAN?)				
gain a better sense of self-awareness	Develo	opment Opportunity	Key Action			
and the impact their	1.		1.			
performance has	2.		2.			
on their peers and teammates.	3.		3.			
	」 					
		1X1 FOLLOW-UP ACTION ITEMS (WHAT ACTIONS WILL YOU TAKE AS A FOLLOW-UP TO THE 1X1 DISCUSSION?)				
		ctions	Comments	Date Due		

Source: Mitchell International, Inc.; CEB analysis.

Note: To see the entire Mitchell case profile, please visit clc.executiveboard.com or follow the link here.



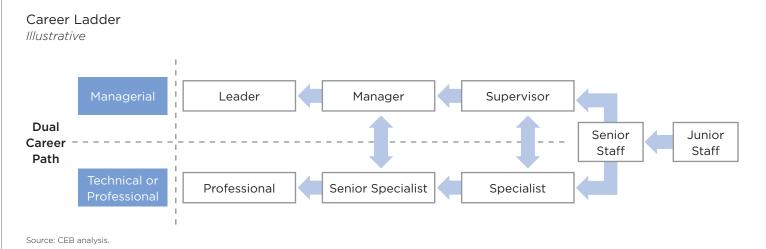
TWO COMMON MYTHS ABOUT STEM CAREERS



STEM functions create two types of career paths for their talent: managerial for individuals with leadership capability and technical for everyone else.

 These dual career ladders help address manager and HR concerns that most STEM talent are not capable of or interested in leadership.

STEM FUNCTIONS USE DUAL CAREER LADDERS TO ACCOMMODATE INDIVIDUAL CONTRIBUTOR CAREERS



HR and Managers Lack Confidence in Current Talent

"We need to find alternate ways to further enhance, recognize, and showcase our technical and engineering talent who are capable of leadership."

> Vice President, HR Technology Industry

"Some members on our team naturally have the skills that will make them successful in a leadership role. For most others, we need to create an alternative path so we don't lose their technical expertise."

> Vice President, IT Health Care Industry

In comparison to other talent segments, STEM talent are more likely to want a career with opportunities for leadership.

 STEM talent are more likely to want multiple promotions and to rise to a senior management position.

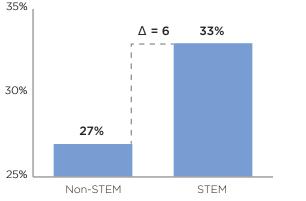
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STEM TALENT ARE MORE LIKELY TO WANT A CAREER WITH LEADERSHIP OPPORTUNITIES

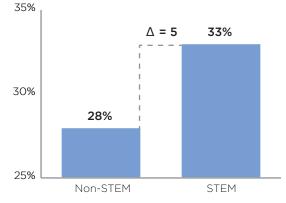
STEM Talent More Likely to Want Promotions Percentage of Employees Rating Receiving Multiple Promotions Among Top Two Career Goals



n = 17,971. Source: CEB 2014 Q1 Global Labor Market Survey.

STEM Talent More Likely to Want to Rise to a Management Position

Percentage of Employees Rating Rising to a Senior Manager Position Among Top Two Career Goals



n = 17,971. Source: CEB 2014 Q1 Global Labor Market Survey.

Despite leadership aspirations STEM employees are less developed in critical leadership competencies than are non-STEM employees.

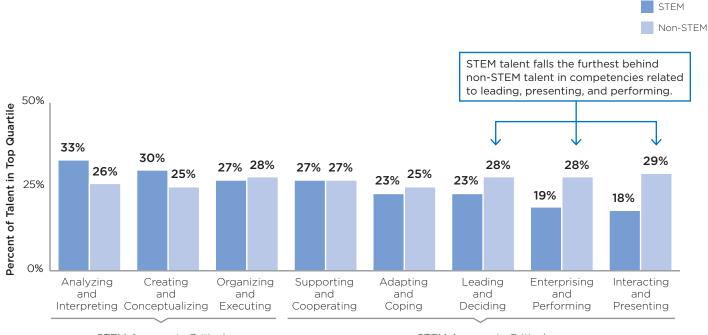
- Critical technical competencies include analyzing, organizing, and creating.
- Critical leadership competencies are leading, enterprising, cooperating, adapting, and presenting.

SHL's UCF and "The Great Eight"

The SHL Universal Competency Framework (UCF) establishes a standard classification for **competencies required to succeed in any job, at any level, in any organization**. At the top of the competency hierarchy are "the Great Eight." Which are a general categorization of behaviors that influence job performance. For more information, please visit ceb.shl. com.

STEM LAGS BEHIND OTHER FUNCTIONS IN LEADERSHIP COMPETENCIES

STEM and Other Talent Scores Against the "Great Eight" Competencies



STEM Average in Critical **Technical** Competencies—**30%**

STEM Average in Critical Leadership Competencies—22%

n = 242,684.

Source: CEB 2001-2014 SHL Universal Competency Framework.

Insight 3: STEM talent can't reach their leadership potential if they are not developed in critical leadership competencies. Organizations should incorporate leadership skills into all levels of STEM development.



Organizations struggle to transition from a culture of technical leadership to business leadership due to seven barriers.

CHALLENGES TRANSITIONING FROM TECHNICAL The Intelsat LEADERS TO BUSINESS LEADERS

Seven Barriers to Instilling Business Leadership into Company Culture

1. Technical leaders lack management skills.

Technical leaders' performance is based on their technical capabilities rather than management and leadership capabilities.

2. Business goals are not adequately integrated into leadership development programs. Business goals either are not integrated into leadership development programs or are so vague (e.g., increase profits) that they fail to lead to business outcomes.

- **3. Leadership development lacks integration with performance management.** Leadership development skills are not integrated into performance management processes, limiting reinforcement.
- **4. Leadership development narrowly focuses on leadership levels.** Organizations focus on leadership development at the top of the organization, failing to recognize that leadership manifests at all levels to drive meaningful change throughout the organization.
- 5. Business leadership skills are not taught in a reality-based manner that facilitates change. Business leadership skills are generic and not taught based on individual employee's needs or work realities.
- 6. Leadership development fails to create meaningful, collaborative networks.

Traditional leadership development programs group employees from different functions or departments but fail to do so in a way that generates lasting relationships.

7. Leadership development lacks global applicability.

Leadership development fails to adequately account for cultural differences and skill variation across geographies.

Source: Intelsat; CEB analysis.



With the competency model as a guide, Intelsat develops a comprehensive leadership academy customized by level.

- The tiered approach to leadership development ensures that all employees build and reinforce, for one another, the skills Intelsat requires for business success appropriate for their role.
- The academy ensures cultural transformation across the company in a way that is relevant to employees' individual skill needs.
- The leadership academy is designed for employees across all of Intelsat's global locations.
- To minimize disruptions to work and allow participants to apply the skills they learned in the workplace, the modules are spread across a two-year time frame.

INTELSAT'S TIERED LEADERSHIP ACADEMY



Level-Appropriate Business Leadership Skills Reinforce Broad-Scale Change

Employee Level	Leadership Academy	Components		
Executive Provides highly individualized coaching and feedback to refine executives' existing leadership skills	1. Executive Leadership Off-sites: Off-sites for strategic planning and leadership development	2. Executive Presentations: Business case presentations to develop influencing skills	3. Individual Coaching: One-on-one coaching to refine personal leadership skills	4. Mentoring: Two-way development relationship between executive and future leader
High Potential Develops robust business, critical-thinking, and strategy-execution skills in future executives	1. Action Learning Projects: Team projects to solve core business challenges	2. Presentation Skills: As- needed team presentations of action learning project outcomes	3. Group Coaching: Group coaching to guide action learning teams through project completion	
Leadership Builds on foundational management skills with increasing focus on business results and cross-organizational collaboration for experienced managers	1. Project Management: Guidance on Intelsat's project-based approach to work	2. Effective Performance Management: Skills for providing feedback and conducting reviews	3. Business Acumen: Simulation for teaching relevant financial skills to non- finance leaders	4. Leadership Excellence: Assessment of both individual leaders' and Intelsat's general leadership styles
Management Builds foundational leadership skills, including people-management skills and basic guidance on how Intelsat conducts business	1. Go-To Guide for New Managers: Tactical guide to managing at Intelsat	2. Management Skills for New Managers: Basic people- management skills for new managers	3. Meeting Facilitation: Guidance on facilitating effective meetings	4. Managing Within the Law: Overview of relevant laws and their implications

Source: Intelsat; CEB analysis.

Note: To see the entire Intelsat case profile, please visit clc.executiveboard.com or follow the link here.

Hillshire eliminates staff's perception of reputation risk by having leaders provide feedback on ideas, not individuals, during extracurricular, "SNOW Day" activities.

- Idea presentation guidelines written informally language remove staff perception that they will be formally assessed.
- The executive committee provides feedback on the ideas business fit and also provides guidance on further idea refinement.
- Only idea names and their scores (1 to 4) are displayed, ensuring no individual's weaknesses are highlighted.
- Idea presentations give executives an opportunity to informally take notice of their staff's Influencer and Customer Emphathizer behaviors.

REDUCE REPUTATION RISK BY PROVIDING DEPERSONALIZED FEEDBACK



Innovation Idea Presentation Guidelines for R&D Workforce

SNOW Day Idea Presentations

Guidelines for Presenting Ideas

- No slides, no sitting, no fear
- **1**-5 minute presentation
- Find unique ways to present
- Presentation content should include:
 - Idea definition,
 - Business fit, and
 - Learnings,

Executive Feedback

- Seek executive guidance for ideas presented.
- Executives will provide feedback on the business fit of the idea and help refine the idea.

Results

- Idea scores are displayed on the Innovation Board.
- Idea scores displayed are anonymous and identified by their idea names, not individual names.

How can executives depersonalize feedback?



Absence of formal presentation slides and an informal environment ensure staff do not take executive feedback personally.



Idea reviews are two-way conversations ensuring staff see value in seeking feedback on refining their ideas faster.



Executives' assessments on ideas, and not on the individual ,mitigates employee fear that their weaknesses will be highlighted.

Depersonalizing feedback encourages staff to pursue bold new ideas, increasing executives' awareness of staff's innovation potential.

Source: Hillshire Brands; CEB analysis. Note: To see the entire Hillshire case profile, please follow the link here. (Requires a membership in CEB Research & Development Leadership Council)

THREE STRATEGIES TO ATTRACT AND RETAIN TOP STEM TALENT

Strategy	Incorporate Development EVP into STEM Recruitment Strategies	Rethink the Traditional STEM Career Path to Drive Engagement	Embed Collaborative Responsibilities and Behaviors into STEM Job Success
Insight	Attract STEM Talent with Opportunities for Development, Not Just Expensive Compensation Packages	Empower STEM Talent To manage Their Own Careers, Don't Just Force Them Through the Traditional Career Ladder	Incorporate Enterprise Contribution into STEM Roles, Don't Just Convince Them of the Value of Collaboration
Best Practice	Assess areas to invest in competitive differentiation against critical EVP attributes.	Equip employees to drive career conversations.	Embed responsibility for fostering connections into employees' roles.
	🕤 Scotiabank	M mitchell	ExonMobil
	Employment Value Proposition (EVP) Redesign	Employee-Owned Performance Conversations	Connection-Making Exemplars
		Embed leadership competencies in development across employee careers.	
	APPENDIX	<table-cell-rows> Intelsat</table-cell-rows>	
	Incorporate conversations on long-term career development into internship programs.	High-Performance Leadership Academy	
	Principal Financial Group	Reduce reputation risk by creating projects for talent to practice newly developed skills.	
	Career-Centric IT Internship	Hillshire	
		Riskless Ideas-Sharing Workshops	



STEM talent works with peers in other functions more frequently than other talent do.

 STEM talent is experiencing a faster growth in the number of their professional relationships than are other talent.

COLLABORATION IN STEM WORK IS INCREASING MORE QUICKLY THAN IN OTHER ROLES

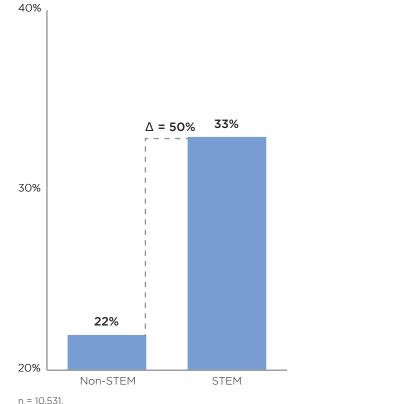
40%

STEM Work Is More Cross-Functional Than That of Other Talent

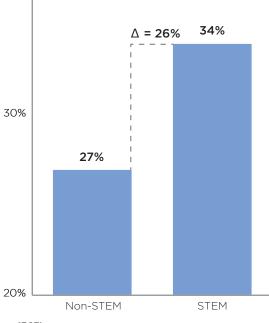
Percentage of Employees Agreeing That Their Work Involves Employees from Different Functions or Divisions Across the Organization

STEM Employees' Networks Are Growing More Rapidly Than Those of Other Talent

Percentage of Employees Agreeing That, Compared with Three Years Ago, They Have More Professional Relationships



Source: CEB 2014 Enterprise Contribution Workforce Survey.



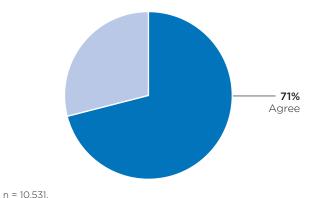
n = 17,971. Source: CEB 2014 Q1 Global Labor Market Survey.

Despite believing in its importance, STEM talent are ineffective at enterprise contribution.

 Less than one-quarter of STEM employees are enterprise contributors.

STEM TALENT LESS LIKELY TO BE ENTERPRISE CONTRIBUTORS

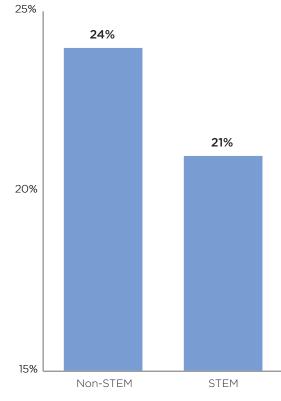
STEM Talent Believes That Enterprise Contribution Is Important to Their Job... Percentage of STEM Employees Who Believe Enterprise Contribution Is Part of the Job



Source: CEB 2014 Enterprise Contribution Workforce Survey.

...But They Are Less Likely to Be Effective at Enterprise Contribution

Percentage of Employees Scoring High at Enterprise Contribution



n = 10,531.

Source: CEB 2014 Enterprise Contribution Workforce Survey.

Enterprise Contribution

Enterprise contribution is the combination of an employee's effectiveness at his or her individual tasks and his or her effectiveness at contributing to and receiving contributions from others.



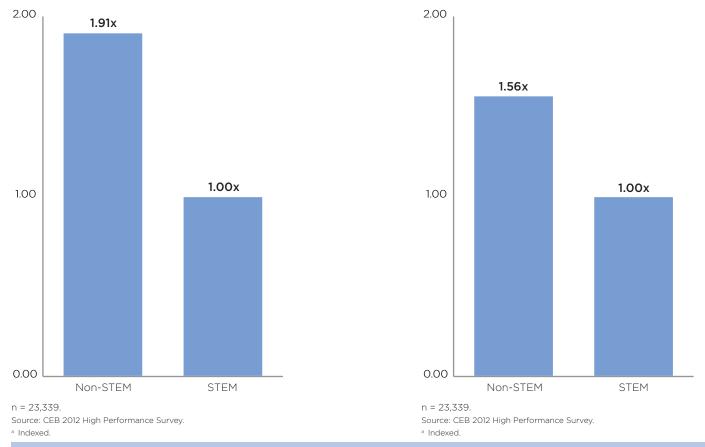
STEM employees struggle to build, manage, and influence their professional networks.

 STEM talent are half as likely as other talent to maintain productive working relationships with internal and external customers.

STEM TALENT STRUGGLES TO MANAGE RELATIONSHIPS AND INFLUENCE STAKEHOLDERS

STEM Talent Are Less Effective Than Peers at Maintaining Positive and Productive Working Relationships with Customers Managers Agreeing Their Employees Are Effective at Maintaining Positive and Productive Working

at Maintaining Positive and Productive Working Relationships with External and Internal Customers^a STEM Talent Less Effectively Influence Others Managers Agreeing Their Employees Are Effective at Influencing Others to Gain Support^a



Insight 4: STEM talent understand the importance of enterprise contribution, but they struggle to effectively manage their external networks. Organizations should support STEM enterprise contribution by embedding network management into STEM roles.

Recognizing the importance of connection making as a core competency for technical employees, ExxonMobil embeds related skills and behaviors into employees' jobs.

- ExxonMobil also holds managers accountable for providing their teams with opportunities to generate external connections.
- ExxonMobil explicitly assigns responsibility for external connection making, recognizing that facilitating of external relationships would probably not happen otherwise.

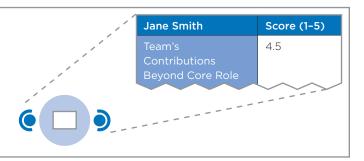
EMBED CONNECTION-MAKING RESPONSIBILITIES INTO THE JOB

Incorporate Connection-Making Competencies and Opportunities into All Employees' Jobs

Competency Area	Level 1	Level 2	Level 3	Level 4	< <u>←</u>
Technical	Accesses external science and technology and applies them to internal problems		Provides innovative solutions and ideas that go beyond current knowledge and applies them to advance own work and assist others	Discovers, develops, and rapidly deploys technology to create a track record of high value for ExxonMobil	
Business	Creates effective technical and business partner networks			Facilitating and accessing external technical networks is required for success at all employee levels.	
Leadership		Proactively shares technical and organizational knowledge		Demonstrates considerable influence internally and, where appropriate, on the external technical community	

Manager Review

ExxonMobil holds managers accountable for providing their teams with opportunities to generate external connections. Managers are evaluated based on their teams' contributions beyond their core jobs.



Source: CEB analysis.

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ExonMobil

KEY TAKEAWAYS AND IMPLICATIONS FOR THE CHRO

Key Takeaways

- STEM talent value development opportunities, not compensation, more than other employees do.
- STEM talent want a career with a variety of experiences, but managers are reluctant to let them move to another part of the organization.
- STEM talent aspire to leadership, but they have underdeveloped leadership competencies.
- STEM talent work is more cross-functional than other work, but STEM talent struggle to manage stakeholder expectations.

Implications for the CHRO

- Differentiate your EVP by focusing on around development to attract top STEM talent.
- Empower STEM talent to lead career conversations with their managers.
- Unlock leadership potential in STEM talent by increasing their development in leadership competencies.
- Increase enterprise contribution in STEM talent by embedding collaborative responsibilities and behaviors into job success.

ADDITIONAL RESOURCES FOR MANAGING STEM EMPLOYEES





Appendix



- To better distinguish from other IT internships, The Principal has centered its program on the career development opportunities candidates can expect if they were to join the organization as a full-time employee.
- The Principal weaves the career mobility EVP into the internship experience via three key steps:
 - Exposing interns to business units (BUs) outside their assigned alignment,
 - Emphasizing cross-team, and real-world work
 - Showcasing potential career paths.

COMPANY SNAPSHOT

The Principal Financial Group

Industry:	Financial Services
2013 Sales:	US\$9.2 Billion
2013 Employees:	14,600
Headquarters:	Des Moines, IA

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USE INTERNSHIPS TO DEMONSTRATE CAREER DEVELOPMENT EVP TO IT CANDIDATES



The IT Internship Experience at The Principal Partners Long-Term Career Development with Real-World Projects

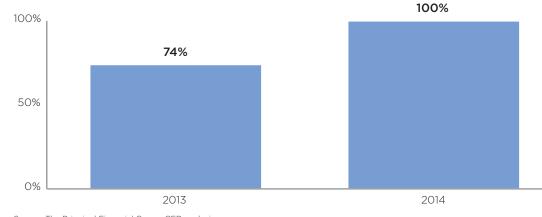
HR and IT Select Candidates	Interns Placed in Business	Ţ	Ongoing Events and Projects	End of Internship					
1. Exposure to BUs Outside Assi	gnment		3. Showcase Potential Career	Paths					
What It Is			What It Is						
Networking events with IT intern	s working in other BUs		Regular Q&A panels with senior leaders and current IT employees						
What It Shows About IT Career	Development at The Principal		What It Shows About IT Caree	r Development at The Principal					
IT work looks different in other fi impacts the entire organization. advantage of opportunities to le aligned with today, as they may with them in the future.	Employees should take arn about BUs they are not		Careers at The Principal are very mobile, so employees should not expect to follow a predetermined career path.						
	2. Events Emphasize Real-W	/orld	l, Fluid Nature of Work						
	What It Is								
	Fun, project-based events w "Code Jam")	ith ir	nterns in other BUs, (e.g. the						
	What It Shows About IT Car	eer l	Development at The Principal						
	Long-term success is depend work with partners in other f expect their work to be fluid	unct	tions, so employees should						

Source: The Principal Financial Group; CEB analysis.

By centering the internship program on career development aspects of the EVP, The Principal can better identify and convert long-term talent for the company.

A CAREER-CENTRIC INTERNSHIP MATCHES THE PRINCIPAL WITH EVP-ALIGNED CANDIDATES

Investment in Intern Career Development at The Principal Has Increased Conversion Rates Percentage of Candidates Receiving a Full-Time Offer Who Have Accepted



Source: The Principal Financial Group; CEB analysis.

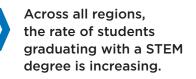
⁴⁴The IT internship program not only prepares the intern for success at The Principal but also directly impacts our ability to convert top candidates. By communicating that our program is designed to expose candidates to the rich variety of careers available here, the IT Recruiting Committee has been able to more effectively distinguish our internship from others and identify long-term talent for the company.²²

> Joan Sheridan HR Business Partner Leader The Principal Financial Group

The Principal has seen a 26% increase in its conversion rate for IT talent since updating its IT internship program—indicating a better fit and higher quality candidates.

Princina

Financi



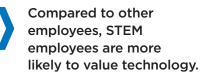
REGIONAL GROWTH RATE OF STEM GRADUATES

Regional Growth Rate of STEM Graduates^a

Region	Growth Rate of STEM Graduates ^a
Asia	9.78%
Africa	12.85%
Europe	5.50%
Latin America	10.05%
North America	5.05%
Australia and New Zealand	3.08%
Global	7.80%

Source: CEB analysis.

^a CEB TalentNeuron analyzed the growth rate of STEM graduates over the past five years.

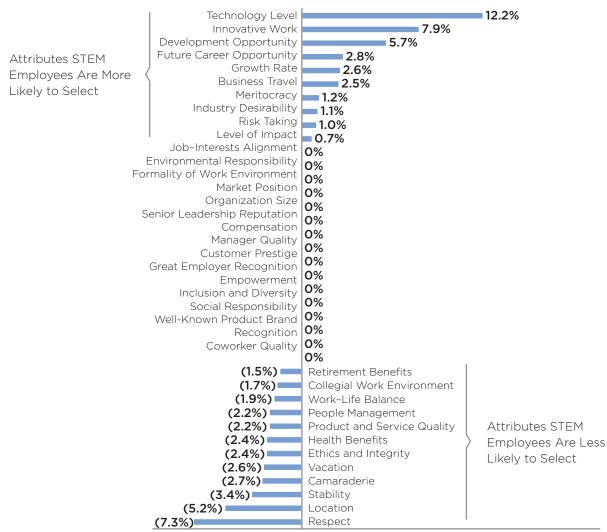


 STEM employees are less likely to value camaraderie, stability, location, and respect.

STEM EMPLOYEES PRIORITIZE TECHNOLOGY LEVEL AND INNOVATION

Extent to Which STEM Employees' EVP Preferences Differ from Other Employees

Percentage Point Change in Likelihood of Selecting Attribute in Top Five Most Important Attributes



n = 17,838. Source: CEB Q2 2014 Global Labor Market Survey.

DISCRETIONARY EFFORT TRENDS BY FUNCTION

Percentage of Employees with High Levels of Discretionary Effort By Function

Function	Q1 2011	Q2 2011	Q3 2011	Q4 2011	Q1 2012	Q2 2012	Q3 2012	Q4 2012	Q1 2013	Q2 2013	Q3 2013	Q4 2013	Q1 2014	Q2 2014	Quarter- Over- Quarter Change
Communications	13.2%	12.6%	18.0%	19.8%	15.2%	16.8%	15.5%	16.6%	17.3%	15.1%	18.6%	17.2%	15.6%	12.0%	(3.6%)
Corporateª	16.9%	25.3%	23.5%	25.3%	25.7%	23.7%	24.6%	23.5%	24.1%	25.8%	27.5%	26.0%	23.9%	21.4%	(2.5%)
Customer Contact	15.6%	20.4%	18.6%	19.0%	20.1%	17.7%	16.8%	18.0%	18.9%	18.5%	20.6%	19.8%	20.8%	16.9%	(3.9%)
Finance and Accounting	13.5%	19.5%	15.0%	18.9%	19.5%	19.5%	18.5%	17.7%	16.2%	18.3%	21.1%	19.6%	19.0%	18.5%	(0.5%)
HR⊳	18.0%	24.0%	19.2%	19.8%	22.4%	20.9%	23.4%	21.7%	22.6%	23.1%	24.0%	21.8%	20.3%	21.5%	1.1%
IT	11.5%	15.5%	16.4%	17.1%	17.2%	17.9%	18.2%	16.0%	16.5%	18.9%	18.4%	19.9%	17.6%	18.4%	0.8%
Manufacturing	13.6%	17.0%	17.8%	16.8%	18.0%	16.2%	17.4%	15.3%	14.3%	17.5%	15.9%	15.5%	16.1%	15.8%	(0.3%)
Marketing and Market Research	11.2%	19.1%	19.7%	17.5%	18.5%	14.8%	17.9%	11.7%	15.8%	18.0%	17.8%	18.0%	18.6%	18.9%	0.3%
Operations	18.5%	23.3%	21.5%	21.2%	22.6%	22.3%	22.9%	20.6%	20.7%	22.0%	23.2%	22.6%	22.4%	21.5%	(0.9%)
Quality	13.8%	18.8%	18.5%	17.4%	18.4%	16.2%	17.5%	18.8%	17.1%	20.4%	19.6%	19.5%	20.6%	17.9%	(2.6%)
R&D and Engineering	11.3%	14.8%	17.1%	15.2%	17.6%	17.5%	18.4%	16.1%	17.6%	17.1%	18.2%	17.1%	18.1%	17.0%	(1.1%)
Retail	19.3%	23.1%	21.6%	23.8%	23.6%	22.7%	20.9%	23.6%	21.7%	19.5%	22.2%	23.3%	20.4%	21.4%	1.0%
Sales	13.5%	19.5%	17.6%	19.8%	19.7%	21.0%	19.4%	20.2%	18.7%	21.4%	18.8%	17.2%	18.4%	18.0%	(0.4%)
Supply Chain and Logistics	16.5%	19.9%	17.7%	21.0%	21.5%	19.1%	20.0%	17.6%	18.4%	17.7%	16.5%	19.7%	21.5%	18.8%	(2.7%)

Source: CEB 2011-2014 Global Labor Market Survey.

Note: Quarter-over-quarter changes calculated from unrounded data.

^a Corporate includes corporate legal, strategy, and real estate departments.

^b Historical discretionary effort trends for the HR function have been slightly adjusted to reflect a more accurate picture of the corporate HR function.

INTENT-TO-STAY TRENDS BY FUNCTION

Percentage of Employees with High Levels of Intent to Stay By Function

Function	Q1 2011	Q2 2011	Q3 2011	Q4 2011	Q1 2012	Q2 2012	Q3 2012	Q4 2012	Q1 2013	Q2 2013	Q3 2013	Q4 2013	Q1 2014	Q2 2014	Quarter- Over- Quarter Change
Communications	24.3%	25.2%	33.2%	34.0%	30.7%	28.0%	28.2%	28.4%	26.8%	26.9%	29.1%	31.7%	34.5%	28.0%	(6.5%)
Corporateª	29.7%	34.6%	35.3%	40.2%	37.0%	33.9%	39.0%	38.8%	38.6%	37.8%	39.0%	35.9%	42.1%	40.8%	(1.3%)
Customer Contact	25.5%	28.8%	29.3%	30.4%	30.9%	29.2%	30.2%	31.1%	31.6%	32.2%	32.8%	32.2%	34.8%	33.7%	(1.1%)
Finance and Accounting	29.6%	32.9%	33.1%	31.7%	32.4%	33.7%	30.4%	33.5%	31.1%	31.4%	32.2%	33.6%	34.3%	36.1%	1.8%
HR♭	28.2%	29.6%	33.7%	35.3%	33.2%	32.8%	31.4%	33.7%	32.3%	38.5%	32.8%	32.2%	37.7%	39.1%	1.4%
IT	24.3%	28.5%	25.7%	26.9%	26.0%	26.6%	25.7%	27.5%	25.9%	27.3%	29.5%	27.8%	31.5%	28.3%	(3.2%)
Manufacturing	28.6%	30.7%	33.0%	32.3%	32.0%	32.1%	30.7%	31.3%	31.4%	34.0%	33.9%	30.0%	37.6%	35.5%	(2.1%)
Marketing and Market Research	22.1%	26.3%	23.4%	29.5%	25.8%	24.7%	26.2%	28.9%	26.5%	23.4%	27.5%	25.4%	29.4%	30.7%	1.3%
Operations	33.3%	34.8%	37.3%	37.4%	36.9%	35.7%	35.6%	36.2%	38.8%	37.7%	37.9%	37.4%	40.5%	41.6%	1.2%
Quality	31.4%	29.5%	34.8%	30.1%	33.0%	31.6%	31.0%	30.5%	32.0%	31.3%	33.2%	35.1%	39.0%	37.5%	(1.4%)
R&D and Engineering	23.0%	25.6%	28.4%	24.9%	28.4%	26.6%	29.3%	27.5%	31.0%	29.6%	30.3%	26.6%	35.0%	32.3%	(2.7%)
Retail	27.6%	29.0%	31.7%	31.5%	29.5%	30.0%	31.6%	30.8%	32.4%	31.3%	33.9%	35.0%	34.4%	34.5%	0.1%
Sales	28.7%	29.4%	30.8%	31.4%	32.7%	33.0%	30.8%	32.1%	33.1%	34.7%	31.8%	32.6%	36.0%	35.9%	(0.1%)
Supply Chain and Logistics	28.6%	33.9%	33.5%	39.4%	36.5%	33.9%	37.8%	34.0%	32.7%	34.1%	34.5%	34.8%	39.2%	38.2%	(1.0%)

Source: CEB 2011-2014 Global Labor Market Survey.

Note: Quarter-over-quarter changes calculated from unrounded data.

^a Corporate includes corporate legal, strategy, and real estate departments.

^b Historical discretionary effort trends for the HR function have been slightly adjusted to reflect a more accurate picture of the corporate HR function.



Entry-level starting salaries for STEM talent vary by region.

REGIONAL ENTRY-LEVEL SALARIES FOR STEM TALENT

Regional Entry-Level Starting Salary for STEM Talent By Region

Region	Average Starting Salary of STEM Talent (in USD)
Asia	10,080
Africa	12,695
Europe	31,218
Latin America	13,395
North America	54,420
Australia and New Zealand	40,660
Average	26,230

Source: CEB TalentNeuron research and analysis, CEB Talent Neuron Internal Database.

HOW TURNOVER COST IS CALCULATED

1. The median STEM voluntary turnover rate in 2012 was 8%.

n = 102. Source: CEB 2013 Annual Turnover Benchmark.

2. The average number of STEM staff at an organization is 1546.

n = 54, 160. Source: CEB RTEC 2012 Budget, Spend, and Performance Survey; CEB IT 2013 Budget Benchmark.

3. The average starting salary of STEM employees globally is \$26,230.

Source: CEB TalentNeuron research and analysis, CEB 2014 Talent Neuron Internal Database.

4. Using standard assumptions about compensation, the CEB Turnover Calculator calculates the following costs:

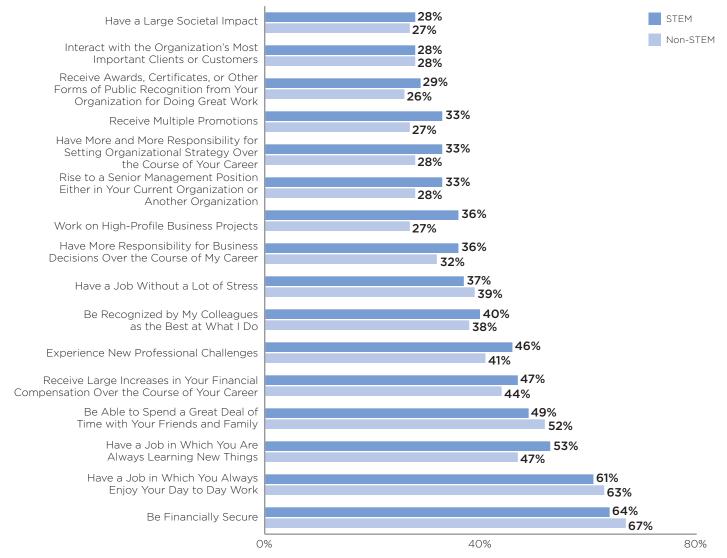
Total Cost of Turnover per Departing Employee (Annual)			al Cost of Turnover ing Organization (Annual)	Reduction in Turnover Rate by:ª	Yields Cost Savings of:	
Total	\$15,560	Total	\$1,924.494	2%	\$481,123	
Direct Cost ^a	\$11,225			5%	\$1,202,809	
Indirect Cost ^a	\$4,335			10%	NA	
				15%	NA	

^a Reduction in percentile points, e.g., an original turnover rate of 15% reduced by 2% results in a turnover rate of 13%.

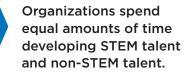
COMPARISON OF CAREER GOALS, STEM VERSUS NON-STEM EMPLOYEES

Employees, Career Goal Preferences

Percentage of Employees Selecting Goal in Top Two Goals Most Important in Their Careers

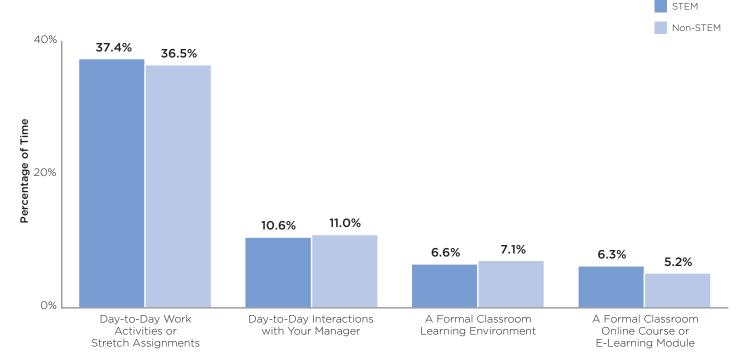


n = 17,971. Source: CEB 2014 Q1 Global Labor Market Survey.



STEM TALENT RECEIVES THE SAME AMOUNT OF TIME DEDICATED TO DEVELOPMENT AS OTHER TALENT

Employees Reporting Percentage of Work Time Spent on Learning and Development Over the Past Six Months Across Different Mediums

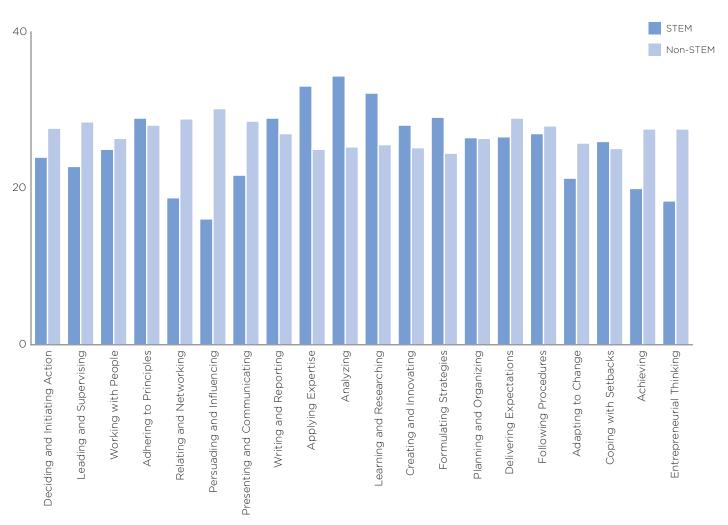


n = 17,971. Source: CEB 2014 Q1 Global Labor Market Survey.

The Great Eight competencies are derived from SHL's UCF 20-competency set.

BROADER VIEW OF STEM AND NON-STEM TALENT AGAINST SHL'S CRITICAL SUCCESS COMPETENCIES

Percentage of Talent in Top Quartile of Effectiveness



n = 242,684.

Source: CEB 2001-2014 SHL Universal Competency Framework

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performance.

of behaviors that influence job

SHL's UCF and "The Great

The SHL Universal Competency Framework (UCF) establishes a standard classification for **competencies required to succeed in any job, at any level, in any organization**. At the top of the competency hierarchy are "the Great Eight." Which are a general categorization

Eight"

Engineering and design employees are more likely to be enterprise contributors than are IT or R&D employees.

PERCENTAGE OF ENTERPRISE CONTRIBUTORS BY FUNCTION

