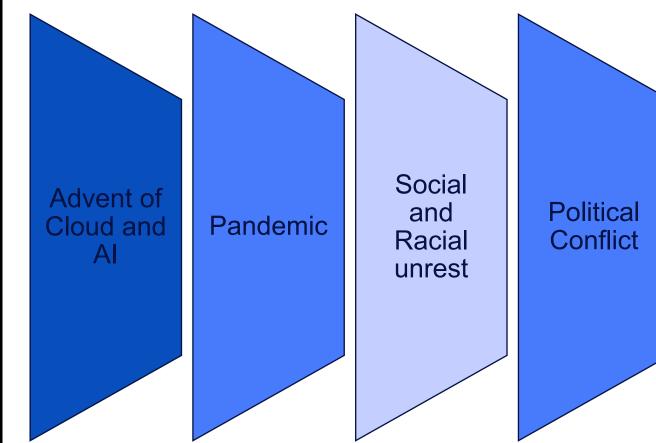
## Strategies for future-fit talent development

Sonia Malik Global Program Lead, IBM Education and Workforce Development



## The state of disruption continues





The post-pandemic era has introduced the need for new business models, new ways of working, and a flexible culture that fosters the development of critical new skills

## \$800B

Could be added to the US GDP by 2030 as a result of effective upskilling Florida gained

## 523,000

Jobs in 2021 after losing 435,000 jobs in 2020

The time it takes to close a skills gap through training has increased more than

## **10**x

3

in the last 4 years

## 120+ million

workers in the world's 12 largest economies may need to be retrained / reskilled in the next 3 years as a result of intelligent automation

## Half of Americans

who quit their jobs last year made a career change.

## 62.4%

Florida's growth in GDP eclipsed the US growth rate of 47.4%

## PwC Report Workforce Of The Future: The competing forces shaping 2030

"The secret for a bright future seems to lie in flexibility and in the ability to reinvent yourself. If you believe that the future lies in STEM skills and that interests you, train for that. But be prepared to rethink if the world doesn't need so many programmers. Think about yourself as a bundle of skills and capabilities, not a defined role or profession."

Carol Stubbings Global Leader, People and Organisation, PwC

**65%** think technology will improve their job prospects in the future.

**74%** believe it's their own responsibility to update their skills rather than relying on any employer.

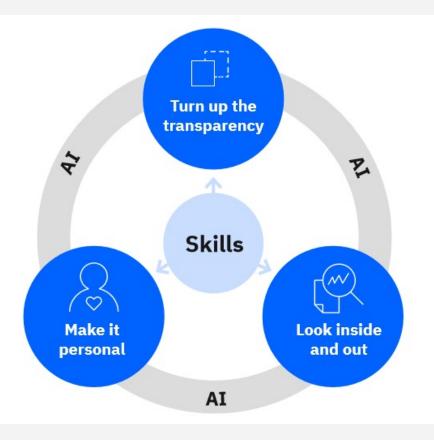
PwC survey of 10,029 members of the general population based in China, Germany, India, the UK and the US – base all those who are not retired 8,459



# To build the workforce of the future we need to revolutionize how we learn

## Skills at the core

AI can help enable transparency and skills personalization in the expanded learning ecosystem







Perform a skills inventory of the existing workforce

Identify roles and skills required in the future

Create a culture of lifelong learning with personalized journeys



## 2 Turn up the transparency

Information to self-direct their learning and career choices

Reward and recognize employees for their skills acquisition





Build agile teams with diverse skillsets

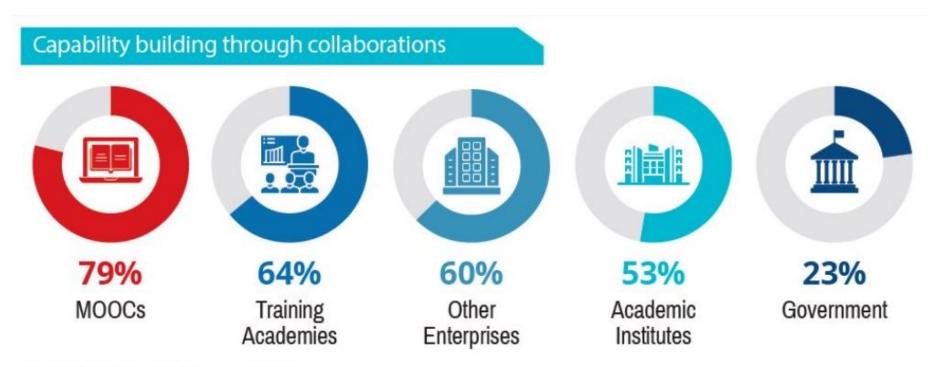
Share skilled talent across organizational boundaries

Collaborate to continually explore and pilot innovative skills gap closure strategies with a coalition

Apply AI to source and harmonize the most relevant platforms and assets



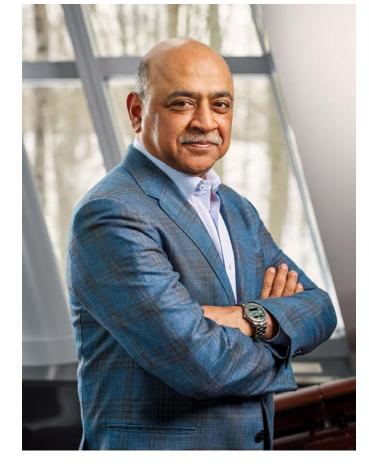
## Creating Ecosystems To Build Future Ready Workforce



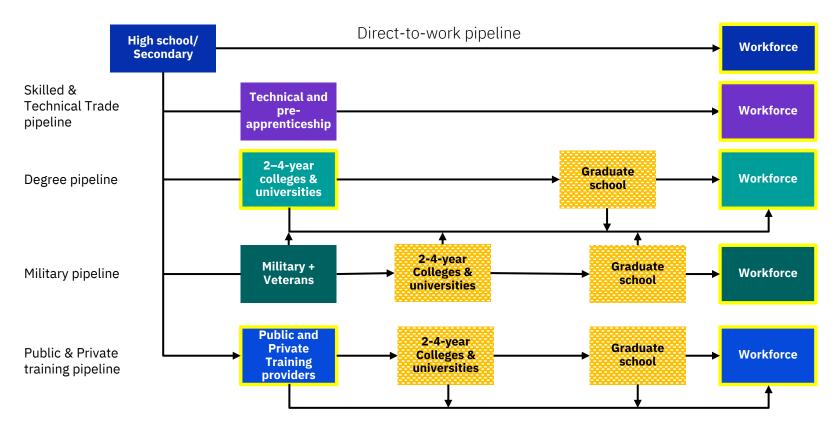
NASSCOM Future Skills survey 2019

"Talent is everywhere; training opportunities are not. This is why we must take big and bold steps to expand access to digital skills and employment opportunities so that more people – regardless of their background – can take advantage of the digital economy. This will help democratize opportunity, fill the growing skills gap, and give new generations of workers the tools they need to build a better future for themselves and society." - Arvind Krishna, Chairman and CEO, IBM

# Skill 30 million people by 2030

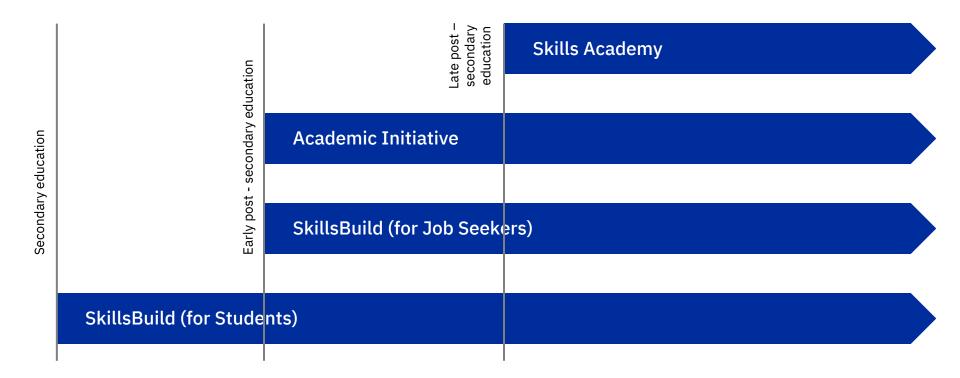


## The Workforce Ecosystem: 5 Pathways to Employment



# Let's create $\Im$ something that changes everything

## One education program – Meeting the learners where they are



## IBM SkillsBuild

A global program powered by market intelligence, partnerships and a digital success team that provides access to employment in the technology sector. Learn more.

#### **Target Audience**

- Secondary (13+)
- 2–4-year institutions (18+)
- Graduate institutions (18+)
- Job seekers (18+)

#### Partners Include

- Not-for Profits
- Secondary and postsecondary academic institutions
- Government
  Organizations
- Staffing agencies

#### **Program Elements**

- Learning experiences that map to entry-level technology roles (some with no college degree requirements)
- Learning that aligns with industry-recognized stacked micro-credentials
- AI-enabled platform to facilitate discovery, provide recommendations and track learner progress
- Network of IBM and non-IBM Coaches and SME Mentors
- Project-based learning
- Access to apprenticeships and jobs through job fairs and staffing companies

Example of Cybersecurity journey, from learning to credentials



## **IBM** Academic Initiative

Enables students and faculty at degree-granting, accredited, academic institutions free access to select IBM software and IBM Cloud access.

<u>Learn more</u>

#### **Target Audience**

- Post-secondary students
- Faculty
- Research Staff\*\*

#### Partners Include

 Accredited academic institutions

#### **Program Elements**

- Access to IBM software required to support hands-on lab experiences
- Access to IBM courseware to incorporate into postsecondary curriculum
- Network of IBM Subject Matter Experts

Top 3 downloads:

ILOG CPLEX Optimization Studio



SPSS

Modeler

Premium





## IBM Skills Academy

A skills-oriented train-the-trainer program that helps faculty empower students with the right mix of skills needed to excel in today's ever evolving, high demand job market.

<u>Learn more</u>

#### **Target Audience**

Faculty

#### Partners Include

- Accredited Universities
- Community Colleges

#### **Program Elements**

- Train-the-trainer materials for faculty
- Strategy development to meet academic needs and goals of the students
- Integrated lab experiences
- Network of IBM Subject Matter Experts

#### 22 Badges on AI, Big Data, Business Analytics, Cloud, Data Science, Cybersecurity IBM Mainframe



## P-TECH

P-TECH (Pathways in Technology Early College High School) is a publicschool model providing a seamless pathway from high school to college and career. Learn more.

#### Partners Include

- School districts
- Post-secondary academic institutions
- Industries

#### **Key Innovation**

- Skill-based internships & employment
- Coaching & Career converstations
- Workplace Learning

#### Program Elements

- Cost-free
- Open enrollment
- Workplace learnig experiences that include mentoring, site visits, career panels
- First-in-line for jobs with industry partners
- Curriculum for teachers, delivered through SkillsBuild



### IBM New-Collar

IBM's New-Collar initiative focuses on improving access to opportunities for people who come from nontraditional backgrounds. In today's modern world, IBM understands that hiring good talent does not just mean hiring someone with a diploma. It is about having the right skills, practical experience, and the determination to succeed.

#### https://www.ibm.com/us-en/employment/newcollar

#### Apprenticeship Program

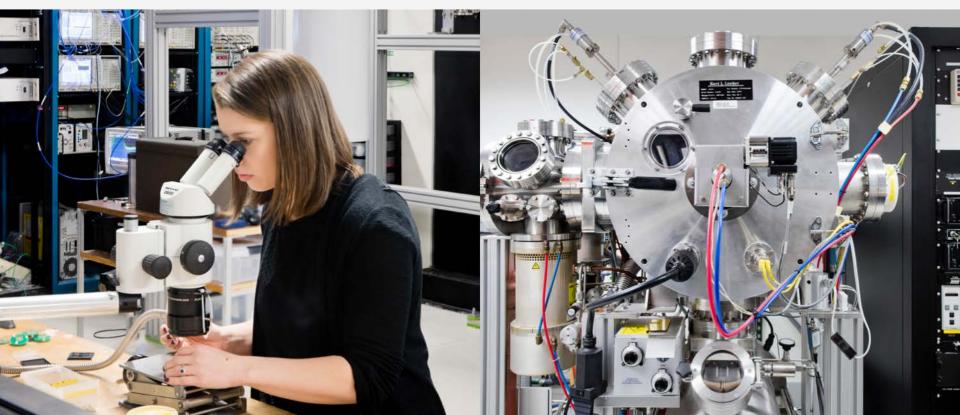
Apprenticeship is an experiential "earn while you learn" program that blends onthe-job learning with hands on training to build foundational skills needed for a specific occupation. In apprenticeship, we hire for aptitude and train for skills.

#### Tech Re-Entry Program

This program is for experienced technologists re-entering the workforce following a career break. Re-Entry hires participate in time boxed apprenticeships to refresh skills and prepare for transition to full time opportunities.

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### **Reinventing Careers with IBM Apprenticeships** Creating new pathways to employment for candidates without a degree.



## **Current Apprentice-able roles at IBM**

**Cybersecurity** Junior Cybersecurity Analyst Hacker (Hardware or Software)

Data Science Data Scientist Junior Data Analyst

#### Design

Visual Designer User Experience Designer Design Researcher Human Resources Talent Acquisition Coordinator

Manufacturing and Testing Mainframe Sys. Verification Tester System Support Technician IT Lab Technician Hardware Design Technician

Marketing Specialist

Product Management Associate Product Manager **Project Management** Associate Project Manager

Software Development & Support Software Engineer / Application Developer Cloud Support Specialist

System Administration Network Administrator Threat Analyst z/OS Mainframe System Admin z/OS Mainframe App Developer

Sales Technical Solution Specialist Technical Solution Seller

Received A.C.E. credit recommendations of upto 48 credit hours

## **IBM Tech Re-Entry Program**

## Helping people return to the workforce the right way.

# Six reasons to join the program

Working in IBM is always about impact, inclusion, and infinite experiences. But there are more great reasons to join the Tech Re-Entry program.



The program offers flexibility and ease of transition from your break to getting back to the workforce.



A dedicated mentor will help you get up-to-speed with the environment and new technology.



Working with multi-disciplinary teams will enable you to deliver client-critical solutions.

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You have the opportunity to update your skills and expertise as you work on real projects with real impact.

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Your community of like-minded rejoiners will support you as you restart your journey together.



The apprenticeship experience could lead to a full-time employment at IBM after you complete the program.

#### https://www.ibm.com/employment/inclusion/techreentry.html

#### Neurodiversity

Neurodiversity at IBM (ND@IBM) is a global program that includes hiring, talent development and enablement for neurodivergent talent.

#### **Program Benefits**

Increases Community Engagement

**Enhances Workforce** 

**Drives Innovation** 



## In summary

- -Be Collaborative
- -Practice Transparency
- -Adopt a Growth Mindset

In this age of accelerations, everyone is going to have to raise their game in the classroom and for their whole lifetime – *Thomas Friedman* 



## Resources

- The enterprise guide to closing the skills gap <u>IBM Study</u>
- IBM New Collar Program <u>Learn More</u>
- IBM Open Badge <u>About the program</u>
- Build your future in technology for free : <u>IBM SkillsBuild</u>
- The American Upskilling Study : <u>Gallup Report</u>
- Defining the skills citizens for future world of work : McKinsey
- Creating a school system that works for all : JFF The Big Blur
- The Future of Jobs <u>World Economic Forum</u>
- To build the workforce of the future <u>World Economic Forum</u>
- The New Foundational Skills of the Digital Economy : <u>Burning Glass Report</u>

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