ORACLE
Academy

Welcome

Oracle Academy — Advancing computing education globally

Name

Presenter's Title

Oracle Academy <region>

Month 00, 2020

About Oracle Academy

Oracle's global philanthropic educational program

Advances computing education globally to increase knowledge, skills development, innovation, and diversity in technology.

Free program for educational institutions, educators, and their students

Engages with thousands of educational institutions and educators in 120+ countries

Helps millions of students get hands-on practice in industry-relevant technologies and become career ready

Why technology knowledge and skills are key

Well-paying jobs in nearly all fields require computing knowledge.

We are dependent on technology for our security, well-being, entertainment, and convenience.

There are more technology-related jobs open globally than there are skilled workers to fill those jobs.

Computing skills transcend industries and professions — and are in demand

Top **5** technologies to be adopted by organizations surveyed by the World Economic Forum, 2020[1]:

Cloud computing
Big data analytics
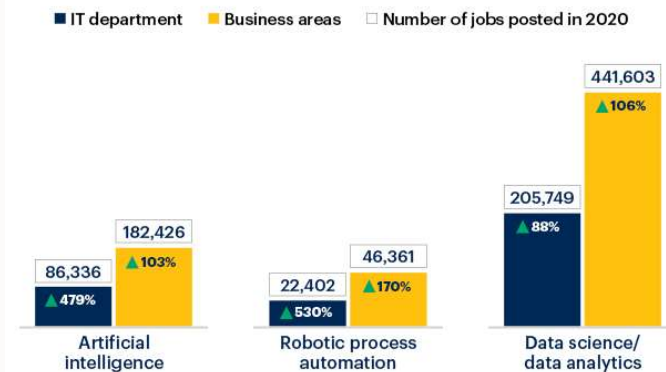Internet of Things and connected devices
Encryption and cybersecurity
AI/ML

Top **5** job roles in increasing demand[1]:

1 Data analysts and scientists
2 AI and machine learning specialists
3 Big data specialists
4 Digital marketing and strategy specialists
5 Process automation specialists

Lack of digital skills threatens growth and transformation across industries and countries[2].

Digital skills in demand beyond tech companies and outside of IT

Growth in jobs posted by non-technology companies in top 12 countries by GDP, 2015-20

■ IT department   ■ Business areas   □ Number of jobs posted in 2020

Artificial intelligence
86,336 ▲479%
182,426 ▲103%

Robotic process automation
22,402 ▲530%
46,361 ▲170%

Data science/ data analytics
205,749 ▲88%
441,603 ▲106%

gartner.com/SmarterWithGartner

Source: Gartner TalentNeuron™ analysis

Note: The top 12 countries are derived from the IMF 2020 ranking of countries by total gross domestic product (GDP), excluding Italy, Spain and South Korea due to limited time series data.

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Gartner.

1 Future of Jobs Survey 2020, World Economic Forum. http://www3.weforum.org/docs/WEF_Future_of_Jobs_2020.pdf
2 Gartner. https://www.gartner.com/smarterwithgartner/lack-of-skills-threatens-digital-transformation/

The global digital skills gap

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In Europe, **42%** of workers do not have basic digital skills, even though most jobs require them.

54% of all employees will require significant reskilling by 2022.

Closing the global skills gap could add **USD 11.5 trillion** to global GDP by 2028. [3]

ICT roles employers find hardest to fill[4]:

Data analytics
Security
Cloud computing
Cybersecurity
IT architecture

3 ITU, International Telecommunication Union. https://www.itu.int/myitu/-/media/Publications/2020-Publications/Digital-Skills-Insights-2020.pdf
4 CMSWire. https://www.cmswire.com/digital-workplace/understanding-the-tech-skills-gap/

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SCIENCE
Scientists use computer programming to analyze the results of their experiments.

CODING JOBS
ARE AVAILABLE ACROSS
MANY CAREERS

DATA ANALYST
Data analysts use computer programming to analyze data and solve problems in business and finance.

INFORMATION TECHNOLOGY
IT professionals write software that is used for everything from creating apps to driving cars.

ENGINEERING
Engineers use programming to design and test new products and conduct research.
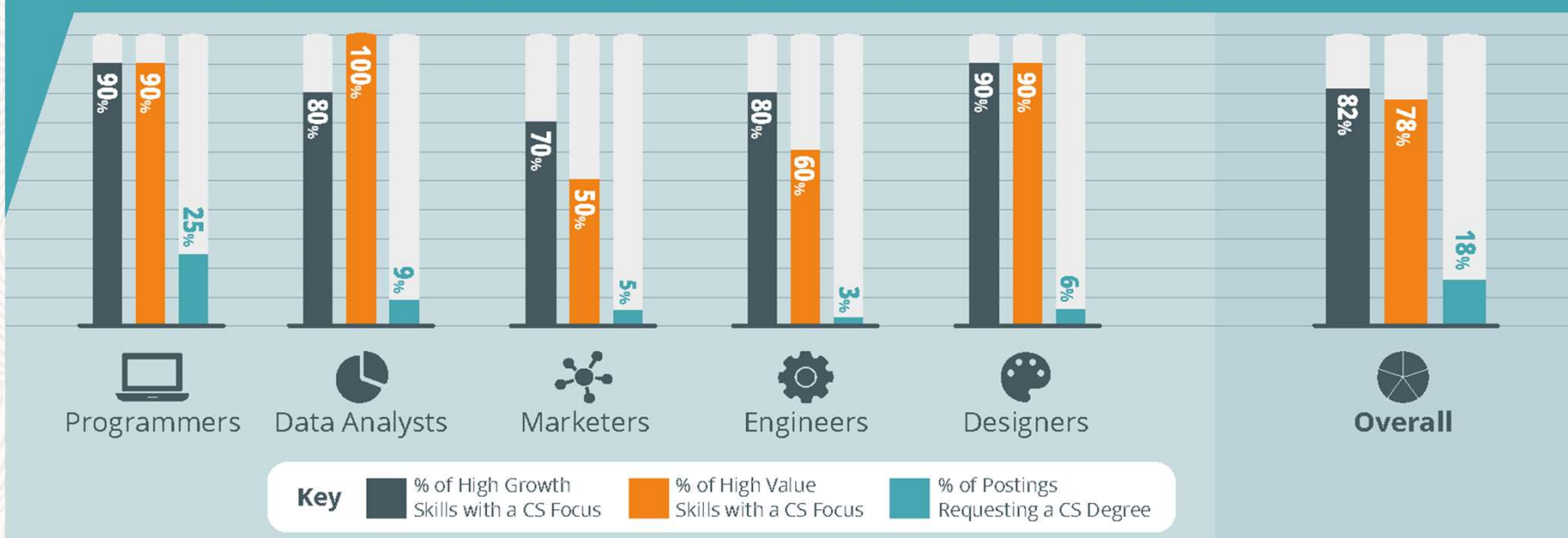
ARTS AND DESIGN
Designers use digital tools to create websites and design the physical products we buy.

Source: Analysis by Burning Glass Technologies. Growth projections are from the Bureau of Labor Statistics; all other data are from analysis of 26 million U.S. online job postings collected by Burning Glass.
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COMPUTER SCIENCE SKILLS HELP JOB SEEKERS STAY AHEAD OF THE COMPETITION

Programmers: 90%, 90%, 25%
Data Analysts: 80%, 100%, 9%
Marketers: 70%, 50%, 5%
Engineers: 80%, 60%, 3%
Designers: 90%, 90%, 6%
Overall: 82%, 78%, 18%

Key: % of High Growth Skills with a CS Focus | % of High Value Skills with a CS Focus | % of Postings Requesting a CS Degree

Source: Analysis by Burning Glass Technologies. Growth projections are from the Bureau of Labor Statistics; all other data are from analysis of 26 million U.S. online job postings collected by Burning Glass.
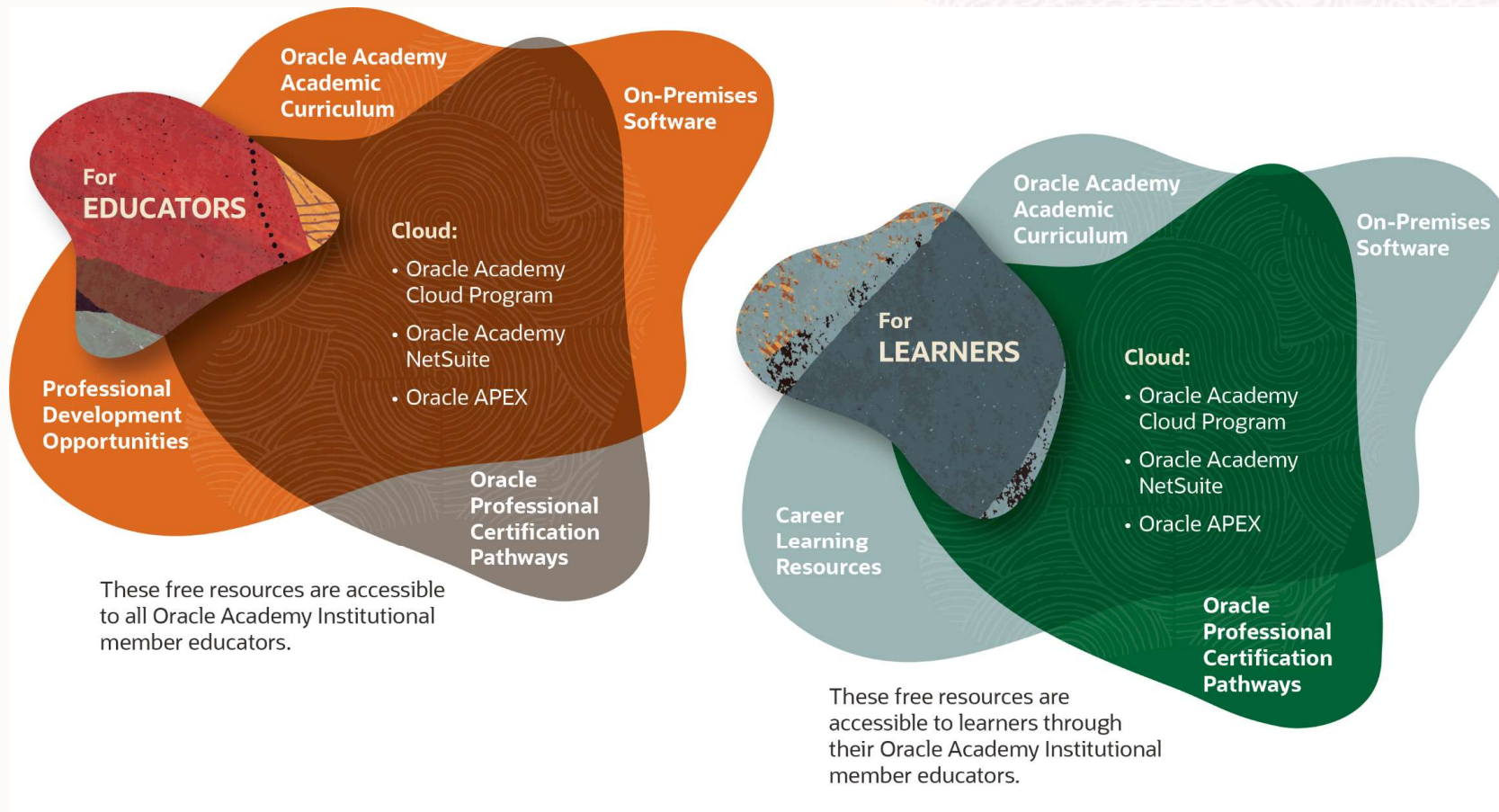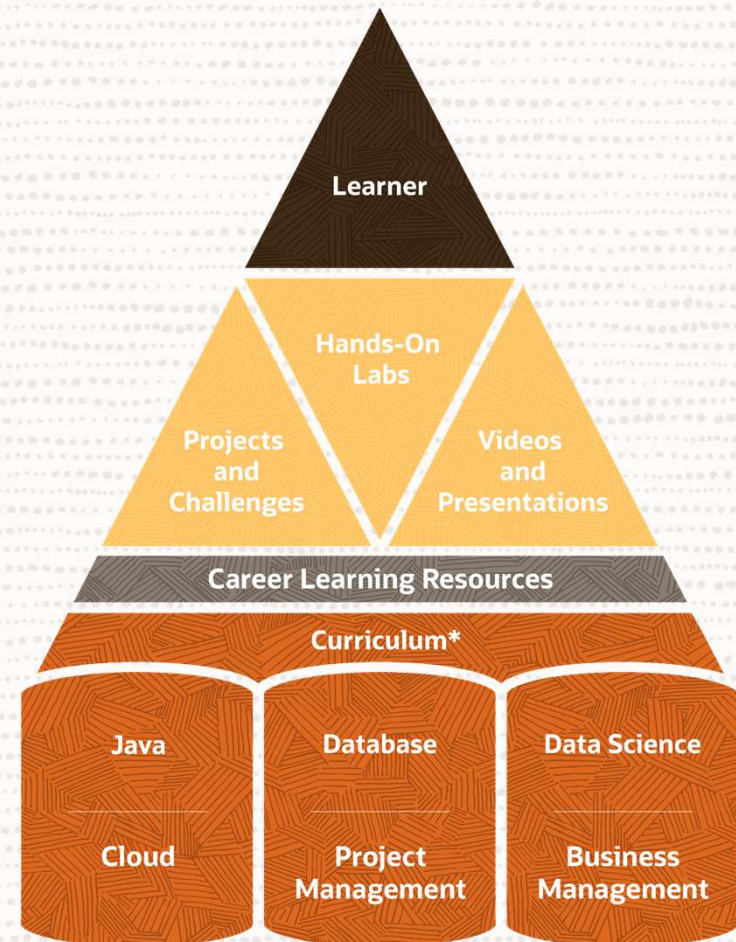© Oracle Academy & Burning Glass Technologies, 2016.

Free teaching and learning resources – for educators and learners

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Oracle Academy Academic Curriculum

On-Premises Software

For EDUCATORS

Cloud:
- Oracle Academy Cloud Program
- Oracle Academy NetSuite
- Oracle APEX

Professional Development Opportunities

Oracle Professional Certification Pathways

These free resources are accessible to all Oracle Academy Institutional member educators.

Oracle Academy Academic Curriculum

On-Premises Software

For LEARNERS

Cloud:
- Oracle Academy Cloud Program
- Oracle Academy NetSuite
- Oracle APEX

Career Learning Resources

Oracle Professional Certification Pathways

These free resources are accessible to learners through their Oracle Academy Institutional member educators.

Free teaching and learning resources

ORACLE Academy

Oracle Academy Education Bytes

- Short, flexible learning modules in programming, database, data science, big data, and many more topics that teach new concepts and enhance existing knowledge and skills, problem solving, creativity, and learning retention.

- Can be used alone or to enhance Oracle Academy curriculum.

- Offers content in three formats: Hands-on labs, projects and challenges, and videos and presentations.

Learner

Hands-On Labs

Projects and Challenges

Videos and Presentations

Career Learning Resources

Curriculum*

| Java | Database | Data Science |
| Cloud | Project Management | Business Management |

*Curriculum is available to Oracle Academy Institutional members only.

Free teaching and learning resources

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Career Learning Resources

Help pave your students' pathway to success with the new Oracle Academy Career Center, offering Career Learning Resources with free career-based learning content modules through Oracle University, Oracle Learning Library, and Oracle developer teams.

Visit the new Career Center in the Student Hub for free career-based courses and more

Free teaching and learning resources

Career Learning Resources

This new offering helps learners make connections between Oracle Academy core academic curriculum and exploration of career pathways that include professional training – with the option to explore Oracle professional certifications.

Engineering and Development Roles	Corporate Function Roles	Sales Roles
• Database Administrators	• Human Resources	• Business Development Consultants
• Software Developers	• Finance	• Sales Managers
• Cloud Infrastructure Engineers		
• System Administrators		
• Project Managers		

Simply log in to your Member Hub to access at **academy.oracle.com**.

Differentiate yourself

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Free resources help you prepare for professional certification

- Differentiate yourself from the competition when applying for internships and jobs

- Oracle Academy courses align to Oracle professional certifications offered through Oracle University

- Oracle Foundations Associate professional certifications provide concrete evidence of knowledge in Java and database core concepts and are recognized by IT industries and professionals

"My certification means I can apply for any job in the future."

Chante Stemmet

Graduate
On the Ball College, South Africa

"Oracle certification was a good opportunity for me to consolidate and prove my knowledge. The Oracle certificate was a great addition to our Java lessons in vocational school."

Marc Schröder

Student
Vocational School Berufsschule Freising
Munich, Germany

Access exclusive member benefits

Encourage your institution to join now

- Educational institutions and their teachers gain access to exclusive member benefits

- Oracle Academy supports each institution and its educators in providing students with hands-on knowledge and practice in the latest industry-relevant technology

- Membership includes free access to curriculum and teaching resources, world-class technology and software, professional development, Oracle professional certification resources, member recognition, and discounts

Join at **academy.oracle.com/membership**.

Questions?