

# **PARTNERING WITH BUSINESS TO REVERSE THE SKILLS GAP**

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**ANALYTICS  
INDUSTRY  
GROWTH IS  
STRONG**



**65%**

**Percentage of US jobs that will require  
post-secondary education and training  
beyond high school by 2020**



# **5 MILLION** Shortfall of US workers with post-secondary credentials needed by 2020



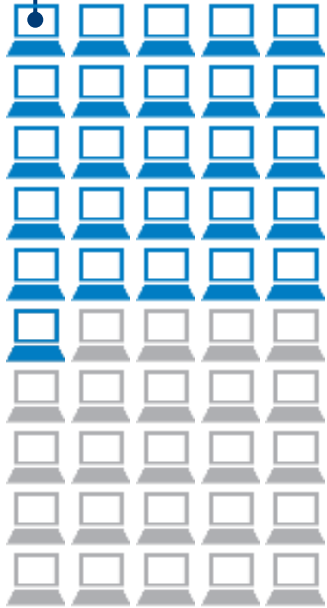
Source: "Recovery, Job Growth and Education Requirements through 2020," Georgetown Center on Education & the Workforce, June 2013

**WHAT  
IS DRIVING  
THESE  
SKILLS  
GAPS**



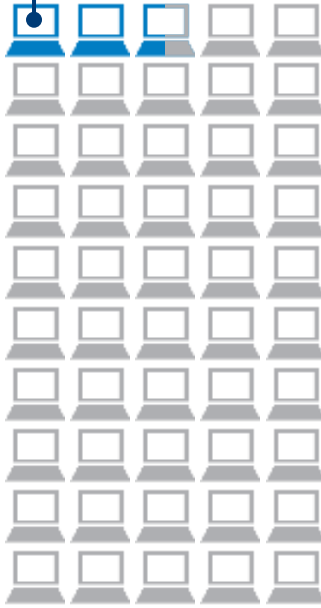
26

States where computer science courses cannot count toward high school graduation requirements



5%

Percentage of high schools with AP-certified computer science teachers



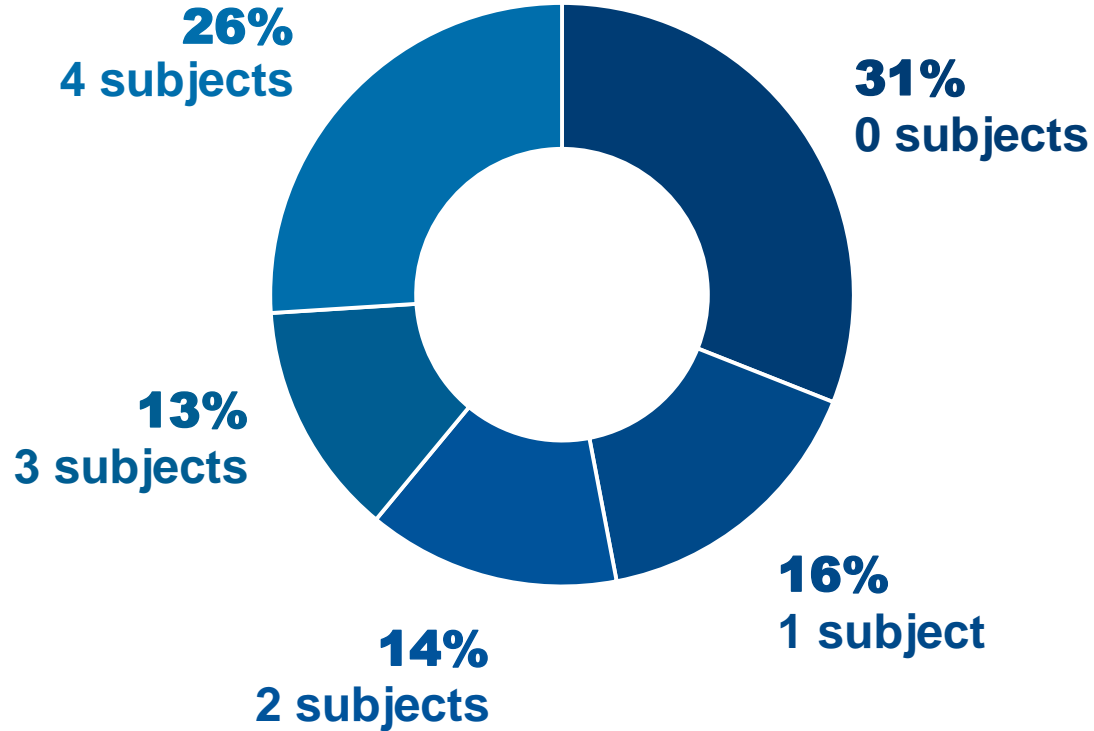
<1%

Percentage of high school students enrolled in AP computer science courses



## COLLEGE READINESS

Percentage of 2014 ACT-tested high school graduates that met college readiness benchmarks





# NC STATE MASTER OF SCIENCE IN **ANALYTICS**



## CLASS OF **2015**

- **100%** graduation rate with **86** degrees conferred
- **100%** job placement
- **248** employment offers
- **3** job offers per student on average
- **100%** employed in the US
- **19-21** months average payback period

Source: "Master of Science in Analytics 2015 Employment Report," Institute for Advanced Analytics, NC State University



**MASTER'S PROGRAMS AT 80+ UNIVERSITIES**

# COMBINE TWO OR MORE ACADEMIC DISCIPLINES





**ORGANIZE  
A DEGREE  
AROUND A  
PROFESSIONAL  
AREA OF  
PRACTICE**



**INCORPORATE EXPERIENTIAL LEARNING**



**PROMOTE COLLABORATION**



5

**ACCELERATED DEGREE PROGRAMS**



# 1 Professors and graduate students as mentors





**1** Professors and graduate students as mentors

**2** Close coordination with K-12 systems



**1** Professors and  
graduate students  
as mentors



**2** Close  
coordination with  
K-12 systems



**3** Collaboration  
with business  
community



<b>Clemson</b>	<b>+</b>	<b>BMW</b>
<b>Maryland</b>	<b>+</b>	<b>Northrop Grumman</b>
<b>Louisiana</b>	<b>+</b>	<b>CGI</b>
<b>Sussex</b>	<b>+</b>	<b>American Express</b>
<b>Minnesota</b>	<b>+</b>	<b>Land O'Lakes</b>
<b>Louisiana Tech</b>	<b>+</b>	<b>CSC</b>
<b>South Dakota State</b>	<b>+</b>	<b>Raven Industries</b>
<b>Munich</b>	<b>+</b>	<b>Audi</b>
<b>Concordia</b>	<b>+</b>	<b>Area companies</b>
<b>Delaware</b>	<b>+</b>	<b>DuPont and Merck</b>
<b>UC Davis</b>	<b>+</b>	<b>Viticulture and Enology</b>
<b>Loughborough</b>	<b>+</b>	<b>Ford Motor Company</b>



THE  
POWER  
TO KNOW.