The Workforce Challenge

Preparing Tomorrow’s Workforce in an Uncertain Economy

The onset of the COVID-19 pandemic in 2020 brought shutdowns across the workforce and around the globe. Students returned home, colleges pivoted to online learning, and educators and state leaders adapted to let students learn despite quarantines, a sagging economy and digital disconnection.

Two years and several surges later, students are back in person, but the effects of the pandemic have shifted the landscape of higher education. As states continue to respond to a constantly changing, technologically advanced world, one thing is clear: Postsecondary education will be the engine that drives us as we recover from the pandemic.

State Economies Need Student Success

Nearly every SREB state has set a goal for raising its education attainment levels. The motivation to do so is based on (1) projected job growth for individuals with some postsecondary education or more, (2) earnings that tend to rise as the level of education increases, and (3) lower unemployment rates for individuals with higher levels of education during downturns in the economy.

Education attainment levels in the region have risen slowly, with 83 percent of adults ages 25 and older holding high school diplomas or GED credentials and 31 percent of adults ages 25 and older having a bachelor’s degree or higher. One important factor has been increases in postsecondary graduation rates, which climbed from 2017 to 2019.

To raise postsecondary attainment levels still further, states must address perhaps the greatest barrier to access: affordability. The average annual cost of attendance for public four-year colleges for the 2019-20 academic year was $21,000 ($11,100 for public two-year colleges). The cost for a public, four-year institution for one year is 138 percent of the average annual household income for those in the lowest fifth of incomes, 31 percent for those in the middle fifth.

Rising student debt also discourages some students from pursuing a postsecondary degree or credential. In 2019, 54 percent of college graduates in the SREB region had outstanding college loans, with an average debt of $28,200. Student debt disproportionately affects Black and Hispanic students, and this in turn affects the diversity rates of faculty members.

While the percentage of first-time, full-time degree- or certificate-seeking freshmen in SREB states who took out loans decreased 2 percentage points between 2013-14 and 2018-19, the loan amounts increased $400 on average during that time. “Students who have already accumulated high levels of debt from their undergraduate education may be less likely to pursue graduate school,” says the SREB report Student Debt Stifles Faculty Diversity: Comparing Debt Burdens in SREB’s Doctoral Scholars Program and Nationwide.

Two promising practices for improving affordability that have gained traction in SREB states are the use of free textbooks, or open education resources, as well as dual enrollment courses. College students can spend over $1200 per academic year on textbooks, putting them out of reach for some students. OER thus lowers the total cost of attendance, as does dual enrollment (or dual credit) by allowing high school students to take college-level courses without paying the associated tuition and fees. Taking these courses might also reduce the amount of time and number of credits required to complete a degree or certificate, thus saving students still more.
Message from the SREB president

Since I was a small child, I’ve loved a good story. Stories change, but all the good ones allow a reader to “see” it unfold, to grasp how the parts fit together. One of the purposes of the Fact Book on Higher Education is to help states understand their own, and the region’s, story of education.

As we emerge from the pandemic, the 2021 Fact Book on Higher Education shows the South at a critical juncture. The setting is a region poised for growth but challenged by the need for many more people to achieve higher levels of education and thus to power our workforce and economy.

The story opens as the SREB region’s slow, gradual gains in education attainment continue. Six-year graduation rates for bachelor’s degree-seeking students rose four percentage points. Meanwhile, the three-year graduation rates for two-year degree and certificate-seeking students increased nearly eight percentage points. These improvements will contribute to education attainment and help meet workforce demand for skilled employees with postsecondary credentials.

But looking ahead, college enrollment has begun to decline, thanks in part to declining birth rates and rising costs. Undergraduate enrollment in the SREB region decreased overall by almost two percentage points from 2014 to 2019, even before the pandemic. Enrollment changes differed by type of institution, with a four percentage point increase at four-year colleges and universities and a seven percentage point decrease at two-year colleges.

Affording college, and shouldering the resultant debt, continues to be a high hurdle for many students — making it more difficult for colleges to maintain enrollment. The cost of attendance has risen steadily over the last couple of decades, with a short reprieve during the pandemic. And rising student loan debt disproportionately affects students from those population groups historically underrepresented in postsecondary education.

To be clear, we need all students to get to, and through, postsecondary education. Fact Book data sheds light on the elements of access and student success we must focus on to help them do so, which will in turn help the South and the U.S. remain competitive.

Few things are certain these days, but I feel confident that postsecondary education is an engine of economic growth that will help lead our recovery. The Fact Book shows us where the story can go from here. It is important to note that much of the data in this edition was collected just before or at the beginning of the pandemic, so annual updates will tell us more about how the region was affected by, and is recovering from, the pandemic. The Fact Book can help chart our path to a brighter future.

We continue to make the Fact Book and data updates available at SREB.org/FactBook, though we are not providing print copies this year. You can download the book in its entirety or choose the chapters most relevant to you. Also, keep in mind that you can download over 100 Fact Book spreadsheets at SREB.org/FactBook for your own analyses.

At SREB, we believe in the power of data to answer important questions and monitor progress on education goals. We trust that you continue to find the Fact Book a reliable and comprehensive source of insight on the trends we face in improving education. The north star that guides us should be the opportunity for each and every student to follow a path to those rewarding careers that drive our states’ stories — and our economies — forward.

Stephen L. Pruitt, Ph.D.
President
Half (49.5 percent) of the nation’s population growth from 2020 to 2030 is expected to be in the 16 SREB states — an increase of almost 17 million. Maryland’s population is projected to increase by 16 percent (1 million people) by 2030.

Source: Table 1, U.S. Census Bureau.
The increase in Hispanic residents is the region’s major demographic trend. Hispanic population growth accounted for 34 percent of all growth in the SREB region from 2009 to 2019. The Hispanic population in Maryland grew by 232,700 — bringing the proportion of Hispanic residents to 11 percent of the overall resident population of Maryland in 2019.
From 2017 to 2019, the SREB region’s public high school graduation rate remained stable at 87 percent. In Maryland, the public high school graduation rate fell from 88 percent in 2016-17 to 87 percent in 2018-19.
Working-age adults have been a common focus in recent years when comparing education attainment levels. Using an equivalency yardstick common for international attainment comparisons (percentage with the equivalent of an associate degree or higher), the United States drops to sixth place internationally, behind Canada, Japan, Luxembourg, Israel, and Korea.
The percentage of adults with associate degrees or higher has risen since 2014 nationally and in all SREB states. In 2019, 49 percent of adults ages 25 to 64 in Maryland had at least an associate degree, up from 46 percent in 2014.
The percentages of working-age adults with at least an associate degree nationwide vary by race and ethnicity. In the SREB region, they are below national averages for white and black adults but above the average for Hispanic adults. In 2019, 27 percent of Hispanic working-age adults in Maryland had an associate degree or higher, compared with 39 percent of Black adults and 56 percent of white adults.

*Ages 25 to 64.
Source: Table 4, U.S. Census Bureau.
The number of children in poverty decreased 5 percentage points nationally and in the SREB region since 2014. By 2019, 12 percent of children were in poverty in Maryland, down from 13 percent in 2014.

Source: Table 12, U.S. Census Bureau.
In 2019, a smaller proportion of Asian young adults (62 percent) and white young adults (41 percent) attended college than in 2014 (65 percent and 42 percent, respectively). A larger proportion of Black young adults (37 percent) and Hispanic young adults (36 percent) attended college in 2019 than in 2014 (33 percent and 35 percent, respectively).

Source: U.S. Census Bureau.

Tables listed are in the SREB Fact Book on Higher Education 2021.
Between 2014 and 2019, the enrollment of women in U.S. colleges and universities decreased at a slower rate than the enrollment of men. In Maryland, enrollment dropped for both men and women by 3 percent.
Among racial/ethnic groups, the number of Hispanic college students grew nationwide from fall 2014 to fall 2019. In Maryland, enrollment increased by 7,200 Hispanic students. Enrollment in Maryland also decreased by 5,900 Black students and 22,600 white students from 2014 to 2019.

Note: Numbers in parentheses are change from 2014 to 2019.
Source: Table 23, National Center for Education Statistics.
Education pays. In 2019, adults ages 25 and older with associate degrees earned 20 percent more than those with only high school-level credentials. Those with bachelor’s degrees earned 79 percent more than high school graduates. And those with professional degrees in fields such as law and medicine earned 102 percent more than those with bachelor’s degrees.
In the U.S., the fastest-growing, highest-paying jobs require education beyond high school. For all job categories requiring an associate degree or higher, jobs are projected to increase more than the overall 4 percent gain in total job openings.

Source: U.S. Census Bureau.

Tables listed are in the SREB Fact Book on Higher Education 2021.
At public two-year colleges, the highest three-year graduation rate for the 2016 cohort was in the Midwest. Gaps in the rates for racial and ethnic groups remain in all regions. Graduation rates for Black and Hispanic students in Maryland’s public two-year colleges were below, while the rate for white students was above SREB averages.
At public four-year colleges, the SREB region’s six-year graduation rates for Hispanic and white students in the 2013 cohort were below those of their national counterparts. In Maryland’s four-year colleges, the graduation rates for Black, Hispanic and white students were above SREB averages for their counterparts.
A substantial percentage of associate degree graduates in 2018-19 were transfer students to the colleges awarding their degrees. Among the 10 states participating in an SREB data collection on the entering status of graduates, the percentage of transfers ranged from 53 percent in Louisiana to 13 percent in Tennessee.
In many states, most associate degree graduates in 2018-19 entered the colleges from which they graduated as full-time students. Among the 10 states participating in an SREB data collection on the entering status of graduates, the percentage who attended full time ranged from 70 percent in West Virginia to 34 percent in Texas.
In SREB states, associate degrees awarded to women rose at a faster rate than those awarded to men from 2013-14 to 2018-19. In Maryland, the number of associate degrees awarded to men increased 11 percent while the number earned by women increased 4 percent. Men accounted for 41 percent of the associate graduates in 2018-19.
The number of associate degrees earned by Black and Hispanic graduates increased by 27 percent nationally and by 22 percent in the SREB region from 2013-14 to 2018-19. In Maryland, the number rose by 1,300, for a 29 percent increase during the period. Furthermore, in Maryland in 2018-19, Black and Hispanic students added up to 37 percent of the graduates in the state.

Table: Associate Degrees Earned by Black and Hispanic Students 2013-14 to 2018-19

<table>
<thead>
<tr>
<th>Region</th>
<th>Additional Degrees</th>
<th>Percentage Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>United States</td>
<td>+75,300</td>
<td>27%</td>
</tr>
<tr>
<td>West</td>
<td>+45,900</td>
<td>55%</td>
</tr>
<tr>
<td>Midwest</td>
<td>-900</td>
<td>-3%</td>
</tr>
<tr>
<td>Northeast</td>
<td>+3,800</td>
<td>9%</td>
</tr>
<tr>
<td>SREB states</td>
<td>+26,500</td>
<td>22%</td>
</tr>
<tr>
<td>Texas</td>
<td>+18,800</td>
<td>55%</td>
</tr>
<tr>
<td>North Carolina</td>
<td>+2,300</td>
<td>32%</td>
</tr>
<tr>
<td><strong>Maryland</strong></td>
<td>+1,300</td>
<td>29%</td>
</tr>
<tr>
<td>Delaware</td>
<td>+100</td>
<td>23%</td>
</tr>
<tr>
<td>Mississippi</td>
<td>+800</td>
<td>19%</td>
</tr>
<tr>
<td>Arkansas</td>
<td>+300</td>
<td>17%</td>
</tr>
<tr>
<td>Georgia</td>
<td>+700</td>
<td>10%</td>
</tr>
<tr>
<td>Florida</td>
<td>+3,400</td>
<td>9%</td>
</tr>
<tr>
<td>West Virginia</td>
<td>+10</td>
<td>5%</td>
</tr>
<tr>
<td>Tennessee</td>
<td>+100</td>
<td>3%</td>
</tr>
<tr>
<td>Louisiana</td>
<td>+10</td>
<td>0.4%</td>
</tr>
<tr>
<td>Oklahoma</td>
<td>-100</td>
<td>-5%</td>
</tr>
<tr>
<td>Virginia</td>
<td>-400</td>
<td>-6%</td>
</tr>
<tr>
<td>Alabama</td>
<td>-300</td>
<td>-8%</td>
</tr>
<tr>
<td>Kentucky</td>
<td>-200</td>
<td>-12%</td>
</tr>
<tr>
<td>South Carolina</td>
<td>-400</td>
<td>-13%</td>
</tr>
</tbody>
</table>

Source: Table 49, National Center for Education Statistics.

Tables listed are in the SREB Fact Book on Higher Education 2021.
A significant percentage of bachelor’s degree graduates in 2018-19 were transfer students to the colleges awarding their degrees. Among the 10 states participating in an SREB data collection on the entering status of graduates, the percentage of transfers ranged from 52 percent in Texas to 28 percent in Tennessee.
A very high percentage of bachelor’s degree graduates in 2018-19 entered the colleges from which they graduated as full-time students. Among the 10 states participating in an SREB data collection on the entering status of graduates, the percentage who attended full time ranged from 93 percent in West Virginia to 74 percent in Texas.
In most SREB states, bachelor’s degrees awarded to women rose more than those awarded to men from 2013-14 to 2018-19. In Maryland, bachelor’s degrees awarded to women increased 3 percent and those earned by men grew 14 percent. Men were 43 percent of graduates in 2013-14 and 46 percent in 2018-19.

Source: Table 53, National Center for Education Statistics.
The number of bachelor’s degrees earned by Black and Hispanic graduates increased from 22 percent of the total nationally in 2013-14 to 25 percent in 2018-19. In Maryland, the number of bachelor’s degrees earned by Black and Hispanic graduates rose by 2,000 students and increased to 33 percent of the total.
Median annual tuition and required fees (often called sticker price) at public two-year colleges reached $3,300 in SREB states in 2019-20. This was 1 percent lower than in 2018-19 after adjusting for inflation. In Maryland, tuition and fees at public two-year colleges were $4,100 — 1 percent more than in 2018-19 after adjusting for inflation.
The median annual cost for tuition and required fees (often called sticker price) was $8,600 for public four-year colleges in the SREB region in 2019-20. This was 1 percent more than in 2018-19 after adjusting for inflation. In Maryland, tuition and fees at public four-year colleges were $9,400 — a decrease of 3 percent from 2018-19 after adjusting for inflation.
Nationally, 76 percent of first-time, full-time freshmen seeking degrees or certificates at public two-year colleges received a financial aid grant, took out a student loan, or both, in 2018-19. Eighteen percent took out loans. In Maryland, 65 percent had a grant, loan or both, and 15 percent had loans, which averaged $5,500 that year.

<table>
<thead>
<tr>
<th>Region</th>
<th>Percentage with Grants or Loans</th>
<th>Grant or Loan</th>
<th>Loan</th>
</tr>
</thead>
<tbody>
<tr>
<td>United States</td>
<td>76%</td>
<td></td>
<td>18%</td>
</tr>
<tr>
<td>West</td>
<td>73%</td>
<td></td>
<td>7%</td>
</tr>
<tr>
<td>Midwest</td>
<td>78%</td>
<td></td>
<td>30%</td>
</tr>
<tr>
<td>Northeast</td>
<td>75%</td>
<td></td>
<td>22%</td>
</tr>
<tr>
<td>SREB States</td>
<td>78%</td>
<td></td>
<td>18%</td>
</tr>
<tr>
<td>Maryland</td>
<td>65%</td>
<td></td>
<td>15%</td>
</tr>
</tbody>
</table>

Note: Numbers in parentheses are average loan amounts.
Source: Table 69, National Center for Education Statistics.

Nationally, 76 percent of first-time, full-time freshmen seeking degrees or certificates at public two-year colleges received a financial aid grant, took out a student loan, or both, in 2018-19. Eighteen percent took out loans. In Maryland, 65 percent had a grant, loan or both, and 15 percent had loans, which averaged $5,500 that year.
Nationally, 85 percent of first-time, full-time freshmen seeking undergraduate degrees at public four-year colleges or universities received a financial aid grant, took out a student loan, or both, in 2018-19. Forty-seven percent took out loans. In Maryland the percentages were 80 and 47, respectively. The average loan amount for Maryland freshmen taking out loans that year was $7,400.

### Percentage of Freshmen With Grants or Loans

<table>
<thead>
<tr>
<th>Region</th>
<th>Grant or Loan</th>
</tr>
</thead>
<tbody>
<tr>
<td>United States ($)</td>
<td>85%</td>
</tr>
<tr>
<td>West ($)</td>
<td>80%</td>
</tr>
<tr>
<td>Midwest ($)</td>
<td>85%</td>
</tr>
<tr>
<td>Northeast ($)</td>
<td>86%</td>
</tr>
<tr>
<td>SREB states ($)</td>
<td>87%</td>
</tr>
<tr>
<td>Maryland ($)</td>
<td>80%</td>
</tr>
</tbody>
</table>

Note: Numbers in parentheses are average loan amounts.

Source: Table 68, National Center for Education Statistics.

Tables listed are in the SREB Fact Book on Higher Education 2021.
The average net price of college (cost of attendance minus grant and scholarship aid) for full-time, in-state undergraduates at public two-year colleges in the SREB region in 2018-19 was $6,700, the lowest of any U.S. region. In Maryland, the net price at public two-year colleges was $8,400.
The average net price of college (cost of attendance minus grant and scholarship aid) for full-time, in-state undergraduates at public four-year colleges and universities in the SREB region in 2018-19 was $14,100. In Maryland, the net price at public four-year colleges was $17,000.
In Maryland in 2019-20, funding from state appropriations and tuition and fees per FTE student for public two-year colleges was $13,900 — 2 percent ($200) more than in 2016-17 after adjusting for inflation. The regional average funding per FTE student was $8,600 — 2 percent ($200) less than in 2016-17 after adjusting for inflation.
In Maryland in 2019-20, funding from state appropriations and tuition and fees per FTE student for public four-year colleges and universities was $26,200 — 3 percent ($700) more than in 2016-17 after adjusting for inflation. The regional average funding per FTE student was $18,200 — $400 more than the 2016-17 average after adjusting for inflation.

Note: Based on the Higher Education Price Index (HEPI), which increased by 7.7 percent from 2016-17 to 2019-20.
Source: Table 89, SREB-State Data Exchange.
At Maryland’s public two-year colleges, state/local appropriations increased $69.8 million from 2016-17 to 2019-20, while tuition and fee revenue decreased $11 million — for a net funding increase of $58.8 million.

At Maryland’s public four-year colleges, state appropriations increased $126.4 million from 2016-17 to 2019-20. Tuition and fee revenue increased $107.2 million — for a net funding increase of $233.6 million.

Note: Amounts in parentheses are changes from 2016-17 to 2019-20. Sources: Tables 88 & 89, SREB-State Data Exchange.
College faculty have higher levels of education and higher pay than American workers overall, but public sector faculty salaries have not grown as fast when compared with growth of the average American wage. Faculty salaries at public four-year colleges in the SREB region were 4 percent higher in 2019 than in 1989 when adjusted for inflation. The average increase for all workers nationwide was 28 percent.
From 2014-15 to 2019-20, the SREB region’s average two-year faculty salary, when adjusted for inflation, rose less than 1 percent to $56,300 and remained lower than the national average of $67,300. The average salary at public two-year colleges in Maryland rose 3 percent to $68,800.

(Numbers in parentheses are percent changes 2014-15 to 2019-20 adjusted for inflation.)
From 2014-15 to 2019-20, the SREB region’s average four-year faculty salary increased 11 percent to $85,600 when adjusted for inflation, and remained below the national average of $91,000. The average salary at public four-year colleges in Maryland rose 8 percent to $94,000.

Tables listed are in the SREB Fact Book on Higher Education 2021.
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One threat to increasing education attainment levels across SREB states is the decline in college enrollment. Enrollment declines began before the pandemic but worsened when postsecondary institutions had to limit face-to-face interaction by shifting instruction online and requiring students to move out of residence halls. The slowing of population growth in the region has also negatively affected college enrollment.

With fewer students enrolling in college, states and postsecondary institutions face the challenge of helping more students succeed, particularly from populations that have had lower graduation rates. These populations include historically underserved student populations such as Black, Hispanic, rural and first-generation students.

Increasing faculty diversity can also have a positive impact on college student success. Research at one California university found that students whose professors share their cultural background are more likely to complete college and achieve other positive outcomes. Faculty diversity in the SREB region is growing, but slowly. Black and Hispanic faculty represented 14 percent of full-time faculty at public four-year colleges and 20 percent at public two-year institutions in 2019-20, up from 13 percent and 17 respectively in 2015-16. Similar percentage point increases were seen among Black and Hispanic full-time administrators. SREB’s Doctoral Scholars Program is one example of a program designed to increase the diversity of postsecondary faculty by offering scholarships and mentors for doctoral candidates from underrepresented groups.

Education Attainment, Employment and Earnings

Higher education attainment levels are associated with higher earnings. Adults with bachelor’s degrees in the U.S. earned an average of $75,800 in 2019. Those with an associate degree averaged $50,900, 20 percent more than individuals with only a high school diploma or GED. Benefits of higher earnings go not only to individuals but to the communities in which they live. Higher earnings lead to more tax revenue for local and state governments to support services for those who are unemployed or underemployed.

Jobs that require at least a postsecondary certificate are expected to demonstrate above-average growth rates. The U.S. Bureau of Labor Statistics predicted that growth in total employment would slow to 4 percent from 2019 to 2029, while job growth for individuals with a postsecondary vocational certificate or an associate degree is expected to increase about 6 percent. Jobs requiring a bachelor’s degree are projected to rise more than 6 percent.

As states and postsecondary institutions emerge into a new sense of normalcy as the global pandemic progresses, we have only begun to see what kind of effects it will have on higher education. From increases in virtual attendance to decreases in enrollment to the fallout from the Great Resignation, future editions of the Fact Book will show how the COVID-19 pandemic shapes the future of higher education and the workforce.
Copies of the *Fact Book on Higher Education* are available from the SREB publications office. SREB regularly monitors new comparative data and makes it available on the SREB website: www.sreb.org. The website also features an online edition of the *Fact Book* with links to the latest updates of the tables and individual *Featured Facts* reports for each of the 16 SREB states. For more information about the *SREB Fact Book on Higher Education*, contact Susan Lounsbury, director of Education Data Services, at (404) 875-9211 or Susan.Lounsbury@SREB.org.