Texas A&M University Health Science Center (Texas A&M HSC) creates a significant positive impact on the business community and generates a return on investment to its major stakeholder groups—students, taxpayers, and society. Using a two-pronged approach that involves an economic impact analysis and an investment analysis, this study calculates the benefits to each of these groups. Results of the analysis reflect Fiscal Year (FY) 2016-17 (September 1, 2016 to August 31, 2017). An electronic version of the executive summary and fact sheet are available at: http://ppo.tamu.edu/Services/Assessment/Economic-Impact-Studies.

IMPACT ON BUSINESS COMMUNITY

During the analysis year, Texas A&M HSC’s spending on operations and research, its start-up activities, and the spending of its students and visitors added $398.1 million to the state economy. When also accounting for former students, the impact sums to $597.6 million in total income to the Texas economy. The economic impacts of Texas A&M HSC break down as follows:

OPERATIONS SPENDING IMPACT

- Texas A&M HSC employed 1,265 full-time and part-time employees in FY 2016-17 (less research). Payroll amounted to $129.2 million, much of which was spent in Texas to purchase groceries, clothing, and other household goods and services. Texas A&M HSC spent another $128.7 million to support its day-to-day operations (less research).
- The net impact of Texas A&M HSC payroll and expenses (less research) in Texas during the analysis year was approximately $243.8 million in total income. This is equivalent to supporting 2,801 jobs.

RESEARCH SPENDING IMPACT

- Research activities at Texas A&M HSC impact the state economy by employing people and making purchases for equipment, supplies, and services. They also facilitate new knowledge creation in Texas through inventions, patent applications, and licenses. In FY 2016-17, Texas A&M HSC spent $40.1 million on payroll to support research activities.
• Texas A&M HSC's research spending generated $101.8 million in total income for the Texas economy, which is equivalent to supporting 1,165 jobs.

START-UP COMPANY IMPACT
• Texas A&M HSC creates an exceptional environment that fosters innovation and entrepreneurship, evidenced by the number of start-up companies created by Texas A&M HSC.
• In FY 2016-17, Texas A&M HSC’s start-up companies generated $25.6 million in total income for the Texas economy, which is equivalent to supporting 110 jobs.

STUDENT SPENDING IMPACT
• Around 14% of credit students attending Texas A&M HSC originated from outside the state. Some of these students, called relocated students, moved to Texas. In addition, a number of students would have left the state if not for Texas A&M HSC. These relocator and retained students spent money on groceries, transportation, rent, and so on at state businesses.
• The expenditures of relocator and retained students during the analysis year added approximately $23.8 million in total income to the Texas economy. This is equivalent to supporting 429 jobs.

VISITOR SPENDING IMPACT
• Out-of-state visitors attracted to Texas for activities at Texas A&M HSC brought new dollars to the economy through their spending at hotels, restaurants, gas stations, and other state businesses.
• Visitor spending added approximately $3.1 million in total income for the Texas economy, which is equivalent to supporting 58 jobs.

TOTAL TEXAS A&M HSC IMPACT
The total Texas A&M HSC impact on the Texas economy amounted to $398.1 million in added income, equivalent to supporting 4,563 jobs.

FORMER STUDENT IMPACT
• Over the years, students have studied at Texas A&M HSC and entered or re-entered the workforce with newly-acquired skills. Today, thousands of these former students are employed in Texas.
• The accumulated contribution of former students currently employed in the state workforce amounted to $199.5 million in total income during the analysis year. This is equivalent to supporting 2,096 jobs.

GRAND TOTAL IMPACT
The overall impact of Texas A&M HSC on the state business community during the analysis year amounted to $597.6 million in total income, equal to the sum of the total Texas A&M HSC impact and the former student impact.

<table>
<thead>
<tr>
<th>IMPACTS CREATED BY TEXAS A&amp;M HSC AND ITS FORMER STUDENTS IN FY 2016-17</th>
<th>Total Income</th>
<th>Jobs</th>
</tr>
</thead>
<tbody>
<tr>
<td>OPERATIONS SPENDING IMPACT</td>
<td>$243.8M</td>
<td>2,801</td>
</tr>
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<td>RESEARCH SPENDING IMPACT</td>
<td>$101.8M</td>
<td>1,165</td>
</tr>
<tr>
<td>START-UP COMPANY IMPACT</td>
<td>$25.6M</td>
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</tr>
<tr>
<td>STUDENT SPENDING IMPACT</td>
<td>$23.8M</td>
<td>429</td>
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<tr>
<td>VISITOR SPENDING IMPACT</td>
<td>$3.1M</td>
<td>58</td>
</tr>
<tr>
<td>TOTAL TEXAS A&amp;M HSC IMPACT</td>
<td>$398.1M</td>
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<td>6,658</td>
</tr>
</tbody>
</table>
RETURN ON INVESTMENT TO
STUDENTS, TAXPAYERS, & SOCIETY

STUDENT PERSPECTIVE

- Texas A&M HSC’s FY 2016-17 students paid a total present value of $42.4 million to cover the cost of tuition, fees, supplies, and interest on student loans. They also forwent $98.1 million in money that they would have earned had they been working instead of learning.

- In return for the monies invested in Texas A&M HSC, students will receive a present value of $514.8 million in increased earnings over their working lives. This translates to a return of $3.66 in higher future earnings for every dollar that students invest in their education. The average annual return for students is 13.3%.

TAXPAYER PERSPECTIVE

- In FY 2016-17, state and local taxpayers in Texas paid $161.2 million to support the operations of Texas A&M HSC. The net present value of the added tax revenue stemming from the students’ higher lifetime earnings and the increased output of businesses amounts to $145.4 million in benefits to taxpayers. Savings to the public sector add another $47.1 million in benefits due to a reduced demand for government-funded services in Texas.

- Dividing benefits to taxpayers by the associated costs yields a 1.19 benefit-cost ratio, i.e., every dollar in costs returns $1.19 in benefits. The average annual return on investment for taxpayers is 1.7%.

SOCIAL PERSPECTIVE

- Society as a whole in Texas will receive a present value of $2.2 billion in added state revenue over the course of the students’ working lives. Society will also benefit from $274.1 million in present value social savings related to reduced crime, lower unemployment, and increased health and well-being across the state.

- For every dollar that society spent on educations obtained at Texas A&M HSC during the analysis year, society will receive a cumulative value of $5.43 in benefits, for as long as the FY 2016-17 student population at Texas A&M HSC remains active in the state workforce.

STUDENT RATE OF RETURN

- For every $1 spent by... Students
  - Gained in lifetime earnings for STUDENTS
  - 13.3%

- For every $1 spent by... Taxpayers
  - Gained in added taxes and public sector savings for TAXPAYERS
  - 10.1%

- For every $1 spent by... Society
  - Gained in added state revenue and social savings for SOCIETY
  - 0.8%

**FDIC.gov, 7-2017.