Science and technology are vital to the future of South Dakota’s economic health. South Dakota’s Vision 2020 Science and Technology plan provides our state with a roadmap for supporting and growing science and technology education and economic development that will create higher-paying jobs and high value exports to positively impact the quality of life for every South Dakotan.

The South Dakota Vision 2020 Science and Technology plan was first created in 2010 at the request of the Governor. The plan is designed to be inclusive of citizens, industry, postsecondary education, K-12 education, economic development organizations and state government.

The Science and Technology plan is having a positive effect on the state’s economy. For example, the state’s levels of academic science and engineering research and development (R&D), per $1,000 of Gross Domestic Product, more than quadrupled, outperforming national standards. This growth is a direct reflection of statewide investments towards research infrastructure, which has brought in new companies and increased job opportunities for South Dakotans.

The continued support of the Vision 2020 Science and Technology plan by the education sector, private sector and state government will be a valuable driver to South Dakota’s future.

For more information visit sdstplan.org
South Dakota's Biotech Industry

- 420 biotech businesses
- 5,800 employees
- Projected to grow at a 10% rate through 2020
- Industry outpaced the public sector, growing 7x faster
- $61,141 average annual wage

South Dakota's Higher Education

- 87+ S&T degree-related programs offered at SD technical institutes
- 1,239 technical institute graduates with S&T-related degrees from 2015-2016
- 1,036+ undergraduate degrees in STEM disciplines from SD higher education public institutions in FY15
- 120+ certificates, associates, bachelor, masters and Ph.D. bioscience programs
- 5,200 bioscience graduates from the South Dakota public university system in the last 5 years

South Dakota Industry Stats

- Median earning in South Dakota STEM jobs are $28.59/hour
- Median earning in South Dakota for all other jobs are $15.55/hour
- By 2020 it is projected that South Dakota will have 18,896 IT jobs available, up 11.6% from 2015

Industry Sector

<table>
<thead>
<tr>
<th>Industry Sector</th>
<th>2015-2020 South Dakota Projected Employment Growth vs. U.S.</th>
<th>Current Jobs &amp; Salary</th>
<th>Example Start-up Companies that are contributing to economic growth</th>
</tr>
</thead>
</table>
| IT, Cyber Security & Information Assurance | 12% 9.6% U.S. | 12,856 jobs $63,930 average salary | DocuTap – Sioux Falls, SD 250+ employees, Governor's Giant Vision
Secure Banking Solutions – Madison, SD 50+ employees, Governor's Giant Vision, SBIR award, Dakota Seeds
Innovative Systems – Mitchell, SD 200+ employees, Dakota Seeds |
| Materials & Advanced Manufacturing | 8% 0% U.S. | 21,937 jobs $56,390 average salary | Antimicrobial Materials – Sioux Falls, SD 3+ employees, SBIR award, Research Center, Proof of Concept
VRC Metal Systems – Rapid City, SD 25+ employees, SBIR award, SDRC
NanoFilter Separations – Rapid City, SD 8 employees, Governor’s Giant Vision, SBIR award, Dakota Seeds
Octalux Environmental Systems – Timber Lake, SD 6+ employees |
| Value-Added Agribusiness/Agriculture | 4% 6% U.S. | 51,438 jobs $39,389 average salary | Prairie AgOperTech – Brookings, SD 15 employees, Governor's Giant Vision, Research Center, Proof of Concept
T2 Technologies (Novozymes) – Watertown, SD 10+ employees |
| Human Health & Nutrition | 11% 7.8% U.S. | 29,337 jobs $61,940 average salary | Asmundt, LCC – Sioux Falls, SD
Immunity Therapeutics, Inc. – Rapid City, SD 72 employees
Medicon – Brookings, SD 5+ employees, Governor’s Giant Vision, Research Center, Proof of Concept |
| Energy & Environmental Jobs | 8% 9.7% U.S. | 22,588 jobs $54,675 average salary | CalBio – Rapid City, SD Governor’s Giant Vision, SBIR award, Proof of Concept |

Data displayed was collected from the following sources:
1. EMSI and RTS, 2016
2. South Dakota Biotech Association
3. SDBOR FY2016 Factbook
4. vitalsigns.changetheequation.org/state/south-dakota
5. www.bio.org/battelle2014
6. SDBOR Dashboard
7. SD Department of Education
8. SD Department of Labor Market Information Center - 2nd Quarter, 2016

Example Start-up Companies: DocuTap – Sioux Falls, SD 250+ employees, Governor's Giant Vision; Innovative Systems – Mitchell, SD 200+ employees, Dakota Seeds; Secure Banking Solutions – Madison, SD 50+ employees, Governor's Giant Vision, SBIR award, Dakota Seeds; Octalux Environmental Systems – Timber Lake, SD 6+ employees; Prairie Aquatech – Brookings, SD 10+ employees; TJ Technologies (Novozymes) – Watertown, SD 10+ employees; Alumend, LCC – Sioux Falls, SD; Immutrix Therapeutics, Inc. – Rapid City, SD 72 employees; Medicon – Brookings, SD 5+ employees, Governor’s Giant Vision, Research Center, Proof of Concept; Antimicrobial Materials – Sioux Falls, SD 3+ employees, SBIR award, Research Center, Proof of Concept; NanoFilter Separations – Rapid City, SD 8 employees, Governor’s Giant Vision, SBIR award, Dakota Seeds; Octalux Environmental Systems – Timber Lake, SD 6+ employees; VRC Metal Systems – Rapid City, SD 25+ employees, SBIR award, SDRC; Orang – Spearfish, SD 22+ employees, Governor’s Giant Vision, Dakota Seeds; Prairie AgOperTech – Brookings, SD 15 employees, Governor's Giant Vision, Research Center, Proof of Concept; T2 Technologies (Novozymes) – Watertown, SD 10+ employees; Asmundt, LCC – Sioux Falls, SD; Immunity Therapeutics, Inc. – Rapid City, SD 72 employees; Medicon – Brookings, SD 5+ employees, Governor’s Giant Vision, Research Center, Proof of Concept; CalBio – Rapid City, SD Governor’s Giant Vision, SBIR award, Proof of Concept.