STEM DASHBOARD

Science, technology, Engineering, and Mathematics (STEM), 2018 and projected 2028

Chart 1: 2018-2028 Projection Growth by STEM Status

<table>
<thead>
<tr>
<th>DC</th>
<th>DC MSA</th>
<th>USA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Stem Occupations</td>
<td>12.5%</td>
<td>11.4%</td>
</tr>
<tr>
<td>Total Non-Stem Occupations</td>
<td>7.5%</td>
<td>8.4%</td>
</tr>
</tbody>
</table>

Chart 2: 2018 Median Annual Wage by STEM Status

<table>
<thead>
<tr>
<th>DC</th>
<th>DC MSA</th>
<th>USA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Stem Occupations</td>
<td>$97,362</td>
<td>$90,200</td>
</tr>
<tr>
<td>Total Non-Stem Occupations</td>
<td>$37,020</td>
<td>$37,020</td>
</tr>
</tbody>
</table>
Chart 3: 2018-2028 Percent Growth by STEM Job Family

- Architecture & Engineering: 7.5%, 9.6%
- Computer & Mathematical: 16.7%, 17.8%
- Education, Training, & Library Occupations: 14.9%, 20.7%
- Healthcare Practitioners & Technical: 9.4%, 10.4%
- Life, Physical, & Social Science: 7.4%, 6.5%
- Managerial: 13.0%
- Sales & Related Occupations: 22.2%, 8.6%
Chart 4: District of Columbia STEM Occupations with the most job openings, 2018-2028

- Architects, Except Landscape & Naval: 206
- Environmental Scientists & Specialists, Including Health: 222
- Information Security Analysts: 222
- Engineers, All Other: 241
- Software Developers, Systems Software: 279
- Software Developers, Applications: 319
- Social Scientists & Related Workers, All Other: 384
- Computer Systems Analysts: 397
- Computer & Information Systems Managers: 433
- Computer User Support Specialists: 467
- Social Science Research Assistants: 481
- Political Scientists: 529
- Registered Nurses: 773
- Economists: 781
- Computer Occupations, All Other: 1,932
Chart 5: DC MSA STEM Occupations with the most Job Openings, 2018-2028

- Software Developers, Applications: 4,135
- Registered Nurses: 3,900
- Computer Occupations, All Other: 2,692
- Computer User Support Specialists: 2,444
- Computer Systems Analysts: 2,319
- Computer Occupations, All Other: 2,692
- Registered Nurses: 3,900
- Software Developers, Applications: 4,135
- Software Developers, Systems Software: 1,656
- Computer Systems Analysts: 2,319
- Computer & Information Systems Managers: 1,635
- Civil Engineers: 1,528
- Network & Computer Systems Administrators: 1,041
- Licensed Practical & Licensed Vocational Nurses: 1,285
- Sales Representatives, Wholesale & Manufacturing, Technical & Scientific Products: 1,358
- Medical & Health Services Managers: 909
- Information Security Analysts: 789
- Computer Programmers: 683
- Mechanical Engineers: 670
- Computer Occupations, All Other: 687
- Software Developers, Systems Software: 683
- Engineers, All Other: 618
- Web Developers: 605
- Environmental Scientists & Specialists, Including Health: 4

Sales Representatives, Wholesale & Manufacturing, Technical & Scientific Products: 682
Registered Nurses: 4,135
Computer Occupations, All Other: 3,900
Computer User Support Specialists: 2,692
Computer Systems Analysts: 2,319
Computer Occupations, All Other: 2,692
Registered Nurses: 3,900
Software Developers, Applications: 4,135
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Computer Systems Analysts: 2,319
Computer & Information Systems Managers: 1,635
Civil Engineers: 1,528
Network & Computer Systems Administrators: 1,041
Licensed Practical & Licensed Vocational Nurses: 1,285
Sales Representatives, Wholesale & Manufacturing, Technical & Scientific Products: 1,358
Medical & Health Services Managers: 909
Information Security Analysts: 789
Computer Programmers: 683
Mechanical Engineers: 670
Software Developers, Systems Software: 687
Engineers, All Other: 618
Web Developers: 605
Environmental Scientists & Specialists, Including Health: 4
Chart 6: Percent of STEM Occupation Job Openings by Typical Education Needed for Entry, 2018-2028

<table>
<thead>
<tr>
<th>Education Level</th>
<th>DC 2018</th>
<th>DC MSA 2018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bachelor's degree</td>
<td>64.8%</td>
<td>63.2%</td>
</tr>
<tr>
<td>Master's degree</td>
<td>11.1%</td>
<td>14.9%</td>
</tr>
<tr>
<td>Associate's degree</td>
<td>5.2%</td>
<td>5.5%</td>
</tr>
<tr>
<td>Some college, no degree</td>
<td>3.7%</td>
<td>3.6%</td>
</tr>
<tr>
<td>Postsecondary non-degree award</td>
<td>4.7%</td>
<td>3.8%</td>
</tr>
<tr>
<td>High School diploma or Equivalent</td>
<td>2.1%</td>
<td>1.1%</td>
</tr>
</tbody>
</table>

Total Annual Job Openings, 2018-2028
DC=12,607   DC MSA=52,283
Chart 7: District of Columbia Highest and Lowest Paying STEM Occupations

- Psychiatrists: $191,315
- Nurse Anesthetists: $189,283
- Dentists, General: $175,376
- Nuclear Engineers: $173,419
- Computer and Information Systems Managers: $165,313
- ALL STEM occupations: $97,362
- ALL occupations: $74,867
- Mechanical Drafters: $46,951
- Pharmacy Technicians: $41,485
- Veterinary Technologists and Technicians: $37,113
- Hearing Aid Specialists: $36,303
- Dietetic Technicians: $28,832
Chart 8: DC MSA Highest and Lowest Paying STEM Occupations

- Obstetricians and Gynecologists: $196,030
- Dentists, General: $186,440
- Nurse Anesthetists: $182,070
- Nuclear Engineers: $164,200
- Computer and Information Systems Managers: $164,200
- ALL STEM Occupations: $90,200
- ALL Occupations: $54,680
- Veterinary Technologists and Technicians: $37,330
- Agricultural and Food Science Technicians: $36,540
- Psychiatric Technicians: $36,050
- Pharmacy Technicians: $35,120
- Dietetic Technicians: $31,480

Median Annual Wage, May 2018
Chart 11: District of Columbia STEM Occupation Median Annual Wage for People Without a Degree, 2018

<table>
<thead>
<tr>
<th>Occupation</th>
<th>Median Annual Wage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Healthcare Practitioners and Technical Workers, All Other</td>
<td>$86,575</td>
</tr>
<tr>
<td>Computer User Support Specialists</td>
<td>$68,730</td>
</tr>
<tr>
<td>Surgical Technologists</td>
<td>$61,216</td>
</tr>
<tr>
<td>Emergency Medical Technicians and Paramedics</td>
<td>$58,981</td>
</tr>
<tr>
<td>Psychiatric Technicians</td>
<td>$54,902</td>
</tr>
<tr>
<td>Licensed Practical and Licensed Vocational Nurses</td>
<td>$54,845</td>
</tr>
<tr>
<td>Medical Records and Health Information Technicians</td>
<td>$51,422</td>
</tr>
<tr>
<td>Health Technologists and Technicians, All Other</td>
<td>$50,082</td>
</tr>
<tr>
<td>Opticians, Dispensing</td>
<td>$48,256</td>
</tr>
<tr>
<td>Pharmacy Technicians</td>
<td>$41,485</td>
</tr>
</tbody>
</table>
Data Source:

STEM dashboard prepared by Dr. John N. Kangethe, Department of Employment Services, Office of Economic Research, Performance & Data Analytics