

STEM

Occupations in Virginia

STEM jobs in Virginia are growing at a steady rate.

Between 2017 and 2027, STEM jobs are projected to grow:

9%

8% Computing

1% Engineering

10% Advanced Manufacturing

STEM earnings are high in Virginia.

Median annual earnings for STEM jobs in Virginia:

\$86,528

Median annual earnings for other jobs in Virginia:

\$42,099

Sources: Education Commission of the States: <http://vitalsigns.ecs.org/state/virginia/demand>; Economic Modeling Specialists International, April 2017.



Science

Atmospheric Scientist; Biochemist; Chemist; Conservation Scientist; Geneticist; Hydrologist; Life Scientist; Microbiologist; Physicist



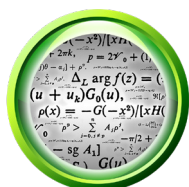
Technology

Business Intelligence Developer; Cyber Security Analyst; Computer Game Designer; Network Administrator; User Interface Developer



Engineering

Aerospace Engineer; Architectural Engineer; Chemical Engineer; Electrical Engineer; Industrial Engineer; Nanosystems Engineers; Robotics Engineer



Mathematics

Biostatistician; Cartographer; Economist; Mathematician; Statistician; Survey Researcher; Transportation Planner

Top 5 High Growth STEM Occupations in Virginia to 2026

by Major Occupational Group

Architecture and Engineering (Total Projected Job Growth - 7,211)

Occupation	2026 Projected Job Growth	2017 Annual Median Wage	Minimum Education
Civil Engineers	969	\$85,300	Bachelor's degree
Mechanical Engineers	738	\$92,870	Bachelor's degree
Electrical Engineers	772	\$100,170	Bachelor's degree
Electrical and Electronic Engineering Technicians	553	\$68,190	Associate's degree
Electronics Engineers, Except Computer	417	\$111,340	Bachelor's degree

Computer and Mathematical (Total Projected Job Growth - 37,426)

Occupation	2026 Projected Job Growth	2017 Annual Median Wage	Minimum Education
Software Developers, Applications	11,710	\$106,500	Bachelor's degree
Computer Systems Analysts	3,537	\$96,450	Bachelor's degree
Software Developers, Systems Software	3,731	\$119,430	Bachelor's degree
Computer User Support Specialists	2,672	\$53,090	Postsecondary
Network and Computer Systems Administrators	2,114	\$89,990	Bachelor's degree

Healthcare Practitioners and Technical (Total Projected Job Growth - 37,035)

Occupation	2026 Projected Job Growth	2017 Annual Median Wage	Minimum Education
Registered Nurses	9,341	\$66,060	Associate's degree
Nursing Assistant	7,861	\$26,590	Postsecondary Certificate
Licensed Practical and Licensed Vocational Nurses	3,794	\$42,310	Postsecondary Certificate
Home Health Aides	5,926	\$21,770	Less than High School
Medical Assistants	4,352	\$32,260	High School or equivalent

Life, Physical, and Social Science (Total Projected Job Growth - 4,194)

Occupation	2026 Projected Job Growth	2017 Annual Median Wage	Minimum Education
Clinical, Counseling, and School Psychologists	562	\$75,530	Doctoral/Professional degree
Environmental Scientists and Specialists, Including Health	335	\$71,040	Bachelor's degree
Biological Technicians	268	\$40,700	Bachelor's degree
Chemists	60	\$93,300	Bachelor's degree
Urban and Regional Planners	182	\$71,090	Master's degree

High Growth STEM-Related Occupations in Virginia to 2026

by Major Occupational Group

Management (Total Projected Job Growth -23,836)

Occupation	2026 Projected Job Growth	2017 Annual Median Wage	Minimum Education
Computer and Information Systems Managers	1,947	\$160,950	Bachelor's degree
Medical and Health Services Managers	1,834	\$100,780	Bachelor's degree
Architectural and Engineering Managers	353	\$145,920	Bachelor's degree
Natural Sciences Managers	152	\$123,240	Bachelor's degree

Education, Training, and Library (Total Projected Job Growth - 30,957)

Occupation	2026 Projected Job Growth	2017 Annual Median Wage	Minimum Education
Mathematical Science Teachers, Postsecondary	243	\$58,450	Master's/Doctoral degree
Nursing Instructors and Teachers, Postsecondary	454	\$67,700	Master's/Doctoral degree
Biological Science Teachers, Postsecondary	332	\$66,950	Master's/Doctoral degree
Computer Science Teachers, Postsecondary	162	\$67,500	Master's/Doctoral degree
Psychology Teachers, Postsecondary	206	\$67,940	Master's/Doctoral degree

Sources: Virginia Employment Commission, Occupational Employment Projections, 2016-2026;
Virginia Employment Commission, Occupational Employment Statistics (OES) Survey;
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Employment and Training Administration.

For More Information on STEM Occupations:

- **STEM Data for Virginia** - <http://vitalsigns.ecs.org/state/virginia/demand>
- **Article** - <https://www.bls.gov/spotlight/2017/science-technology-engineering-and-mathematics-stem-occupations-past-present-and-future/home.htm>
- **Graphs - STEMtistics**: <http://ecs.force.com/studies/rsviewstemL?faq=a080g000019815f>; <http://ecs.force.com/studies/rsviewstemL?faq=a080g000019815p>
- **Article** - <http://ideastations.org/science-matters/hot-shots/hot-jobs/what-are-hot-stem-jobs-virginia>
- **Data** - <https://data.virginialmi.com> (Labor Market Data/Occupations)