

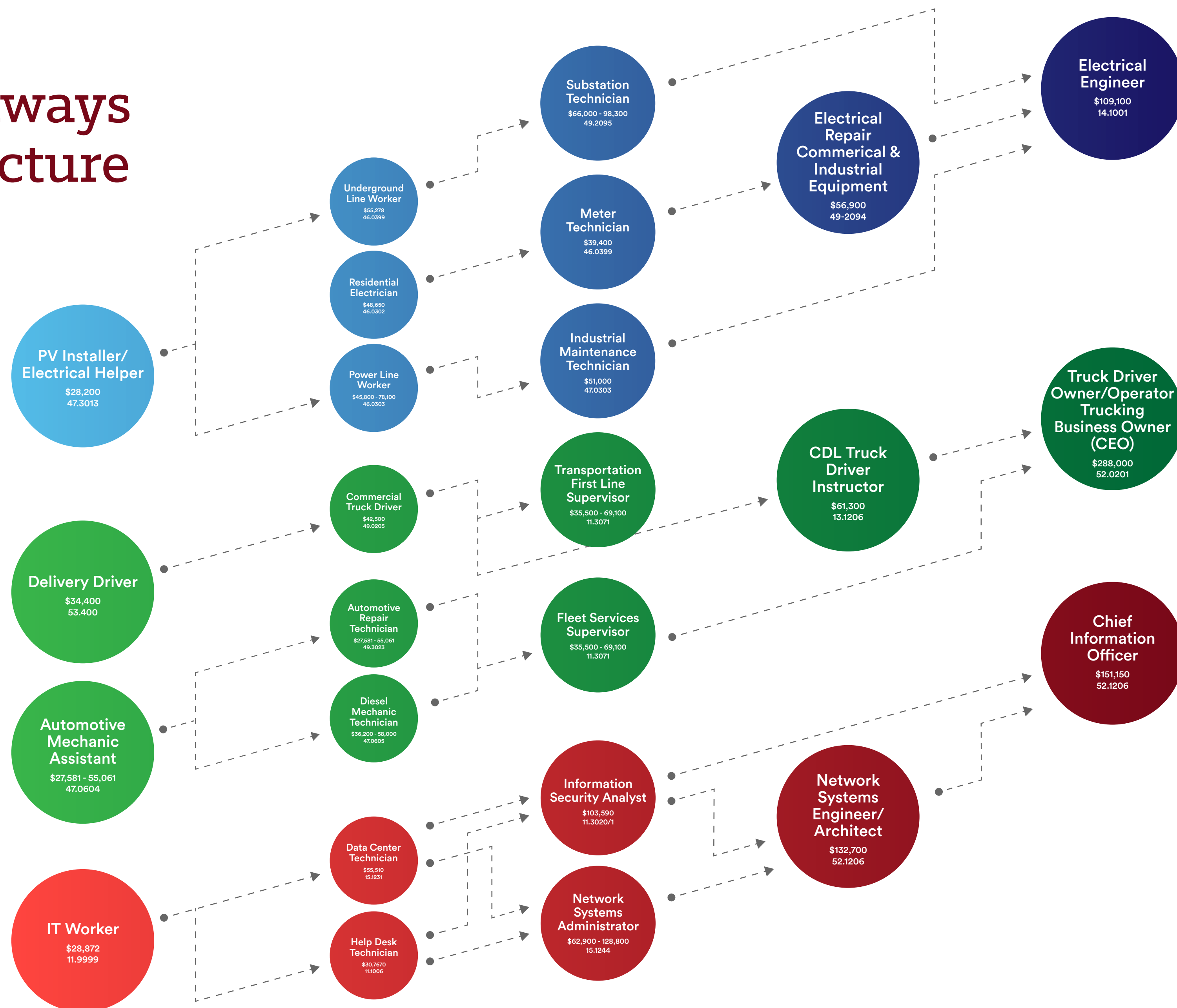
Career Pathways in Infrastructure

The infrastructure industry is constantly evolving and becoming an increasingly wide field. No longer does infrastructure only refer to roads, bridges, rails and tunnels, but it also includes technological and power infrastructure careers. Careers in this field help shape the way our world moves and operates. If you enjoy working outside in the field, or problem-solving and critical thinking, then this industry is for you.

There are dozens of careers across many sectors of the infrastructure industry. The map here shows a wide range of career pathways, but on the next page, we focus on careers that are most connected to Southside Virginia Community College.

Local employers who hire SVCC graduates in this field include: Leidos, General Dynamics, Microsoft, Booz Allen, Man Tech International, Prospecta, RTX, Northrop Grumman, Virginia Community College System, U.S. Army and U.S. Army Reserves, Vance Granville Community College, Estes Trucking, Pike Electric, Dominion, C. W. Wright Construction, MasTech Utility Services, Local co-ops such as Mecklenburg Electric and Southside Electric, among others.

To learn about your training and educational options and to find out what supportive services you may qualify for, visit <https://southside.edu/G3>.





Career Pathways in Infrastructure Job Details



Job Title	3-Year Job Forecast Growth (Virginia)	Supportive Resources	Training, Educational Programs & Accreditation Information
Underground Line Worker	—	G3, FastForward, Virginia Ready	OHSA 10 and Bucksqueeze certification
Power Line Worker	▲	G3, FastForward, Virginia Ready	NCCER CORE, NCCER Power Line Worker I, Power Industry Fundamentals
Automotive Repair Technician	—	G3	NATEF ASE Entry-Level Certification
Diesel Mechanic Technician	▲	G3, FastForward, Virginia Ready	ASE
Data Center Technician	▲	G3, FastForward, Virginia Ready	CompTia ITF+, A+, Server +
Substation Technician	—	G3, FastForward, Virginia Ready	Osha, NCCER Electrical Levels I, II, III, and IV, NCCER Core
Meter Technician	—	G3, FastForward, Virginia Ready	NCCER Core
Transportation First Line Supervisor	—	G3, FastForward, Virginia Ready	CDL
Information Security Analyst	▲	G3, FastForward, Virginia Ready	CompTia Security +, A+
Network Systems Administrator	▲	G3, FastForward, Virginia Ready	CompTia A+, Net+, Server+, Project +, Security + or comparable credentials
CDL Truck Driver Instructor	▲	G3, FastForward, Virginia Ready	CDL
Network Systems Engineer/ Architect	—	G3, FastForward, Virginia Ready	CompTIA A+, Server+, Net+, Security +, Project + or similar credentials
Truck Driver Owner/Operator Trucking Business Owner (CEO)	▲	G3, FastForward, Virginia Ready	CDL
Chief Informaation Officer	▲	G3, FastForward, Virginia Ready	CompTia Security +, A+, NET+, Server+, Project + or comparable certifications

Using forecast data from JobsEQ (accessed September 2021) and local feedback, a forecasted increase is represented with an up arrow, a steady field is represented with a dash, and a declining market is represented with a down arrow.

Descriptions

UNDERGROUND LINE WORKER

\$55,278

Underground lineman install, repair, and remove elements of electrical construction like wires and boxes. Duties may include performing maintenance on underground systems, moving through tunnels or vaults, and checking live systems for damage.

SUBSTATION TECHNICIAN

\$66,000-98,300

Substation technicians install wiring systems and control panels, as well as perform routine maintenance and emergency repairs on electrical substations that send energy into nearby homes and buildings.

CDL TRUCK DRIVER INSTRUCTOR

\$61,300

CDL Truck Driver Instructors train individuals to become commercial truck drivers. The instruction is a combination of lecture and practical exercises including behind the wheel and on the road practice.

METER TECHNICIAN

\$39,400

An electric meter technician works for a power or utility company to perform maintenance and installation of meters used to monitor the energy use of homes and businesses. A power company employs multiple electric meter technicians at a given time to work on the thousands of meters in use.

NETWORK SYSTEMS ENGINEER/ARCHITECT

\$132,700

Network Systems Engineers / Architects design and implement computer and information networks, such as local area networks, wide area networks, intranets, extranets, and other data communications networks.

POWER LINE WORKER

\$45,800-78,100

Power Line Workers install, maintain and repair the power lines that move electricity. Workers identify defective devices, voltage regulators, transformers, and switches. Inspect and test power lines and auxiliary equipment.

AUTOMOTIVE REPAIR TECHNICIAN

\$27,581-55,061

Automotive service technicians and mechanics inspect, maintain, and repair cars and light trucks.

TRANSPORTATION FIRST LINE SUPERVISOR

\$35,500-69,100

Transportation First Line Supervisors work with teams and schedules to manage the logistics of the transportation of goods across the U.S.

TRUCK DRIVER OWNER/ OPERATOR TRUCKING BUSINESS OWNER (CEO)

\$288,000

CDL Truck Driver Owner/Operators own their own truck and operate their own business. They assume all the costs of insurance, fuel, repair, and other costs of doing business. These individuals are self-employed and may employee entry-level CDL drivers.

DIESEL MECHANIC TECHNICIAN

\$36,200-58,000

Diesel Engine Mechanics perform electrical, heating and air, wheel end assembly, air system, air brakes and charging systems diagnostics and repairs.

INFORMATION SECURITY ANALYST

\$103,590

Information Security Analysts plan and carry out security measures to protect an organization's computer networks and systems.

CHIEF INFORMATION OFFICER

\$151,150

Chief Information Officers plan all of the computer related systems for an organization. They are responsible for information security and often protect the personal data of clients and employees.

DATA CENTER TECHNICIAN

\$55,510

Data Center Technicians install, diagnose and repair network equipment to keep commerce, health systems, and other industries that make use of data in operation. Because computer support is important for businesses, support services may need to be available 24 hours a day. As a result, many support specialists must work nights or weekends.

NETWORK SYSTEMS ADMINISTRATOR

\$57,700-111,200

Network Administrators are responsible for the day-to-day operation of computer networks. They work with the physical computer networks of a variety of organizations and therefore are employed in many industries.

