

APPRENTICESHIP CATAWBA *training our future*



A partnership of advanced manufacturing companies in the Catawba Valley area committed to the purpose, value, ethics, and integrity of a formalized apprenticeship program.

APPRENTICESHIP CATAWBA

training our future





What is Apprenticeship Catawba?

- 4-year program: A hybrid program consisting of 1 to 2 days per week on campus at CVCC and 3 to 4 days of on-the-job training provided by a local manufacturing company
- Journeyman Certificate -NC Dept. of Commerce and the US Dept. of Labor
- AAS Degree in Mechatronics Engineering Technology or Computer Integrated Machining Technology from CVCC
- Earn a paycheck while earning a degree and learning manufacturing skills
- College education is free; the company will pay 100% of tuition and books
- Guaranteed employment opportunity with 4-years seniority (*based on successful completion & satisfactory job performance*)
- Additional scholarship opportunities to continue education and obtain 4-yr degree (*may vary by company*)

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Skilled Trades

➤ Mechanical Maintenance Technician

- *Perform mechanical, hydraulic and pneumatic repairs and maintenance of industrial equipment. Troubleshoot systems; utilize precision measurement devices; use hand and power tools; operate machine tools to fabricate and repair components.*

➤ Electrical Maintenance Technician

- *Diagnose, repair and install electrical systems and electronic machines and industrial controls, including robotics, automation, and power distribution. Utilize precision diagnostic tools, computers, and programming skills*

➤ Mechatronics Technician

- *A highly skilled technician combining the expertise of both the mechanical and electrical maintenance technician. Can diagnose, troubleshoot, repair, and install all types of industrial equipment.*



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Skilled Trades:

➤ Tool & Die Maker

- *Working from engineering drawings, tool and die makers fabricate fixtures, dies, molds, machine tools, cutting tools, gauges, etc. used in the manufacturing process. Utilize manually operated and CNC machine tools, and computer aided design to make very precise tooling.*



➤ CNC Machinist

- *Will program, operate, set-up and maintain CNC Machines – Computer numerically controlled machines that have a high-level of accuracy and efficiency. Typically working from blueprints or detailed technical drawings, and utilizing design and computer-aided-machining software to produce precise parts.*

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Eligibility

- Minimum GPA 3.0
- Excellent math/technical skills
- Good attendance record

Open House –February/March

- Tour the partner companies– parents will be invited!

Orientation – April/May

- Invest 4 days of your time – afternoons after school
- A chance to check out the different companies
- Work on a take home project

Pre-Apprenticeship - June & July

- 6 weeks with a company - check out the place!
- Earn money and college credits
- The Pre-Apprenticeship is a “*trial run*” period for you and for the company to determine if there is successful fit. Employers will select students who are successful in the Pre-Apprenticeship to be eligible for the Apprenticeship program.

Apprenticeship begins in the Fall

- As a senior in high school, you will attend school for ½ of your day; and work ½ of your day. A high school graduate will attend classes at CVCC 1 to 2 days per week; and will work 3 to 4 days per week. You will be considered a full-time employee.





Apprentice Wage Scale

Pre-Apprenticeship	\$ 8.00	
Start of Apprenticeship	\$ 9.00	plus Performance Bonus*
2nd Year apprenticeship	\$ 10.00	plus Performance Bonus*
3rd Year apprenticeship	\$ 11.50	plus Performance Bonus*
4th Year apprenticeship	\$ 13.90	plus Performance Bonus*

**Performance bonus is given 2 times per year in conjunction with an evaluation based on academics and job performance.*

During the Pre-Apprenticeship and while still in high school, you will be considered a part-time employee. Once you have graduated from high school, you will be considered a full-time employee and eligible for associated benefit programs (*after eligibility waiting period has been satisfied*).

Expected Base Salary After Successful Completion of Apprenticeship Program: \$34,000



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Salary Comparison:

National Minimum Wage for US:	\$7.25/hr	\$15,080/year
Minimum Wage in NC:	\$7.25/hr	\$15,080/year
NC School Teacher with Bachelors Degree		\$35,000/year
Police Officer		\$36,500

Apprenticeship Graduate **\$34,000**

Experienced:

Industrial Maintenance Mechanic	\$43,000
Experienced Tool & Die Maker	\$46,000
Controls Technician	\$53,000
Mechatronics Technician	\$62,000



What is the cost to the student?

4 Years at	Duke University	approx.	\$280,000
4 Years at	Wake Forest University	approx.	\$196,000
4 Years at	UNC Chapel Hill	approx.	\$100,000
4 Years at	NC State	approx.	\$92,000
4 Years at	Appalachian State University	approx.	\$58,000
4 years in	Apprenticeship Catawba / CVCC	\$0	<u>All costs sponsored by the company</u>

Aptar

Lincolnton, NC



Our Product Offerings



Aerosol Valves
& Actuators



Metered
Dose Valves



Spray
Pumps



Fragrance
Pumps



Lotion
Dispensers



Dispensing
Closures



Sampling
Systems



Bag-on-valves



Cosmetic
Pumps



Simplisqueeze
Silicone Valves



Airless
Systems



Dose Counters
& Indicators



Pouch Fitments



Bonded
aluminum-to-
plastic (BAP)



Food Service
Dispensing
Components



Lab & Analytical
Services



Dry Powder
Inhalers



Miniature
Pumps

Production / Automation



Continental Automotive



**Site 1 –
Electronic
Braking
Systems**

**Site 2 –
Electronic
Suspension
Systems**



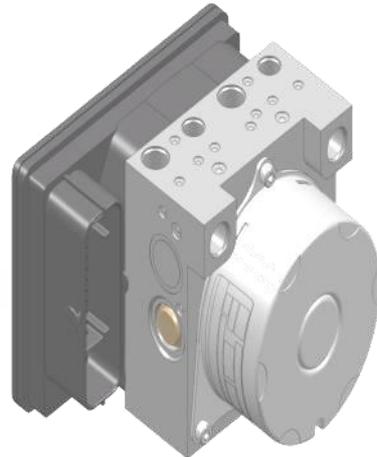
Morganton NC

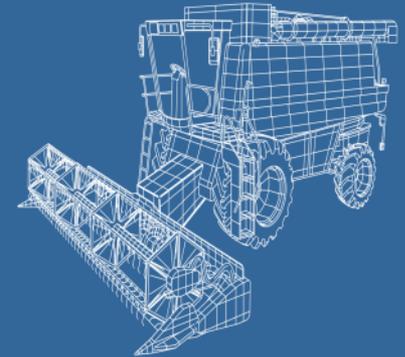
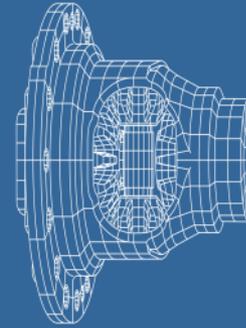
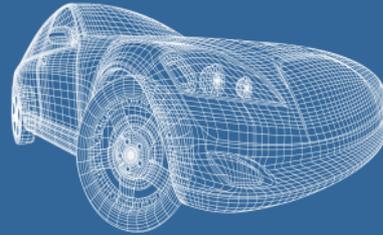
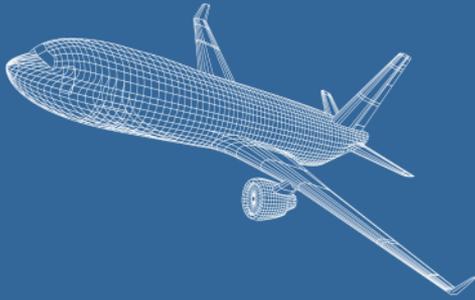
Continental Morganton

In our Morganton Site 2 facility, our employees are proud to assemble Electronic Suspension Systems.



High Speed Manufacturing





GKN Driveline Newton

Plant 1

248,000 Sq.Ft. / 23,038 m²

- > Central Administration
- > Spiral Bevel Gear, Housing and Cover Production
- > Assembly

Plant 2

312,000 Sq.Ft. / 23,876 m²

- > Logistic Services
- > Assembly
- > Axle Development Lab



Some Of Our Products: Rear FDU's, Booster and Twinster Clutches



646 S



646-V - S



**665 - RDM TTD
Booster**



**665 - RDM Twinster
eLSD**



649



648 - S



Some Of Our Products: AWD PTU's and RDU's & Twinstar Torque Vectoring



760



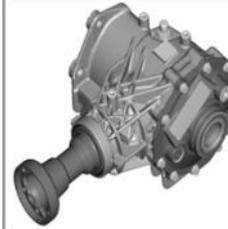
790



780



755



Twinstar
Torque Vectoring



660



690



680



715



Sarstedt USA Headquarters – Newton NC



A worldwide leader in manufacturing consumables and equipment for
medicine and science

Sarstedt Product Range



Specimen Collection

- Venous blood collection
- Capillary blood collection
- Urine & feces diagnostics



Medical Products

- Urine drainage systems
- Incontinence management
- Transfusion medicine



Laboratory Supplies

- Centrifuge tubes
- Screw cap micro tubes
- PCR, liquid handling
- Cell culture
- Cuvettes, test plates



Instrumentation

- Laboratory automation
- Sample preparation

Apprenticeship



TECHNIBILT™

A *wanzl* Company



Largest Shopping Cart
Manufacturer in North America
Headquartered in Newton, NC

CORE PRODUCT LINE



Wire Cart



Renaissance-Hybrid



Wire Two Basket



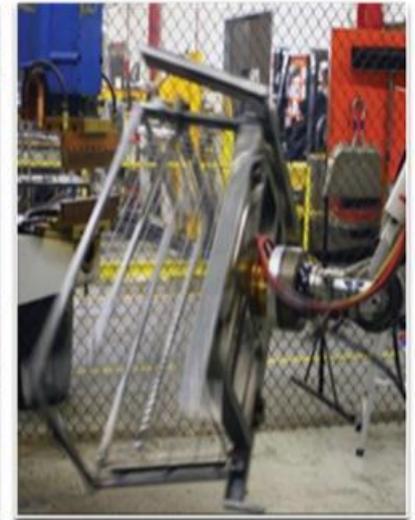
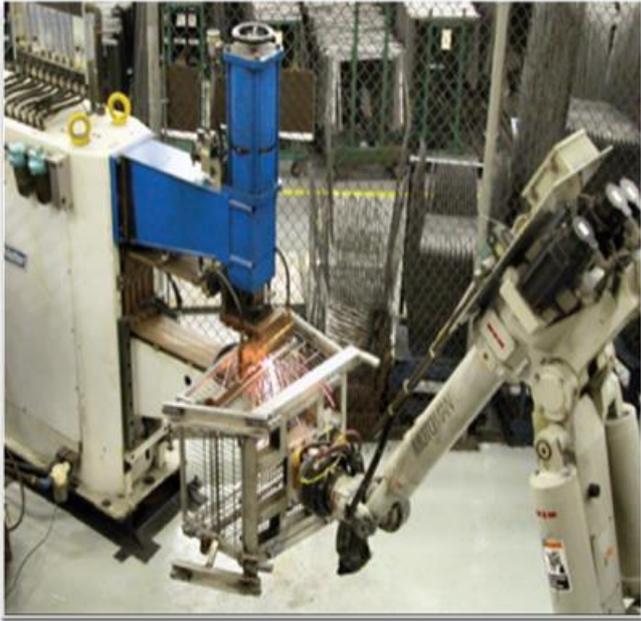
Full Plastic

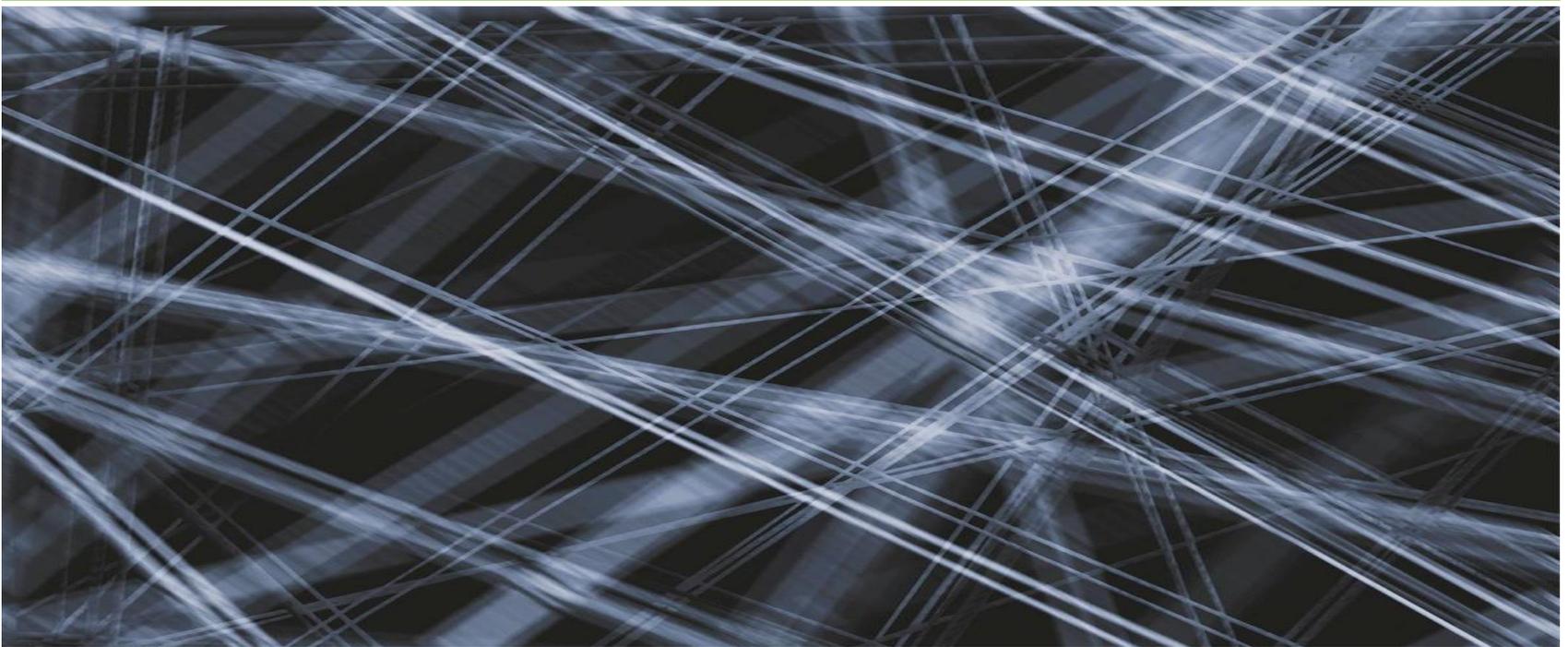


Hand Baskets



Sof-Runner Wheels





TENOWO

N O N W O V E N S

Member of **HOFTEX GROUP**

Tenowo Nonwovens



Is part of the German

HOFTEX GROUP

TEXTILE TECHNOLOGIES

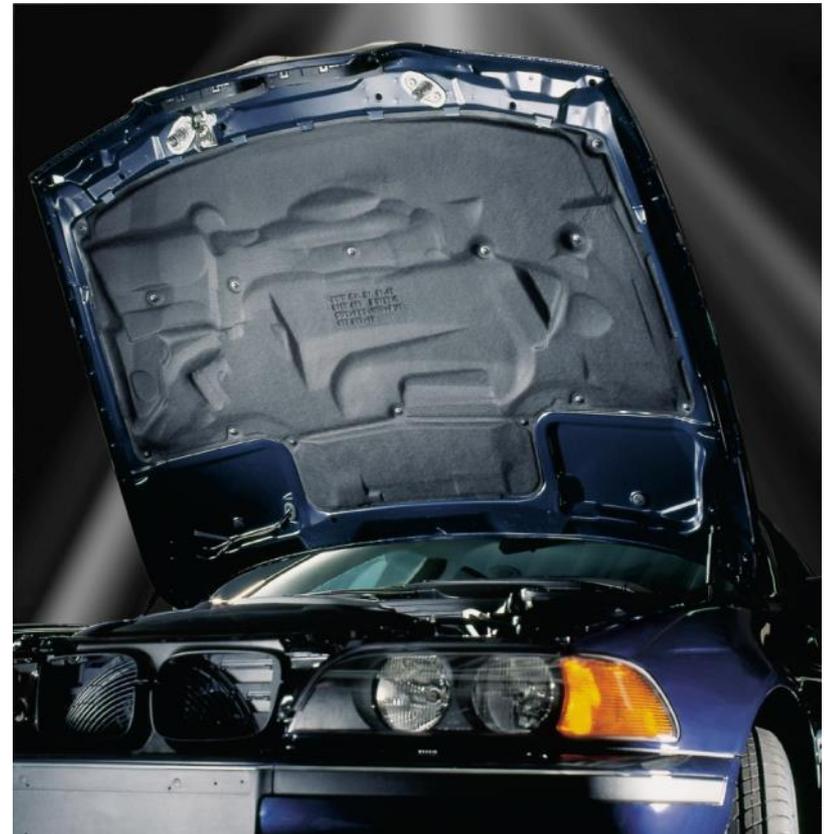
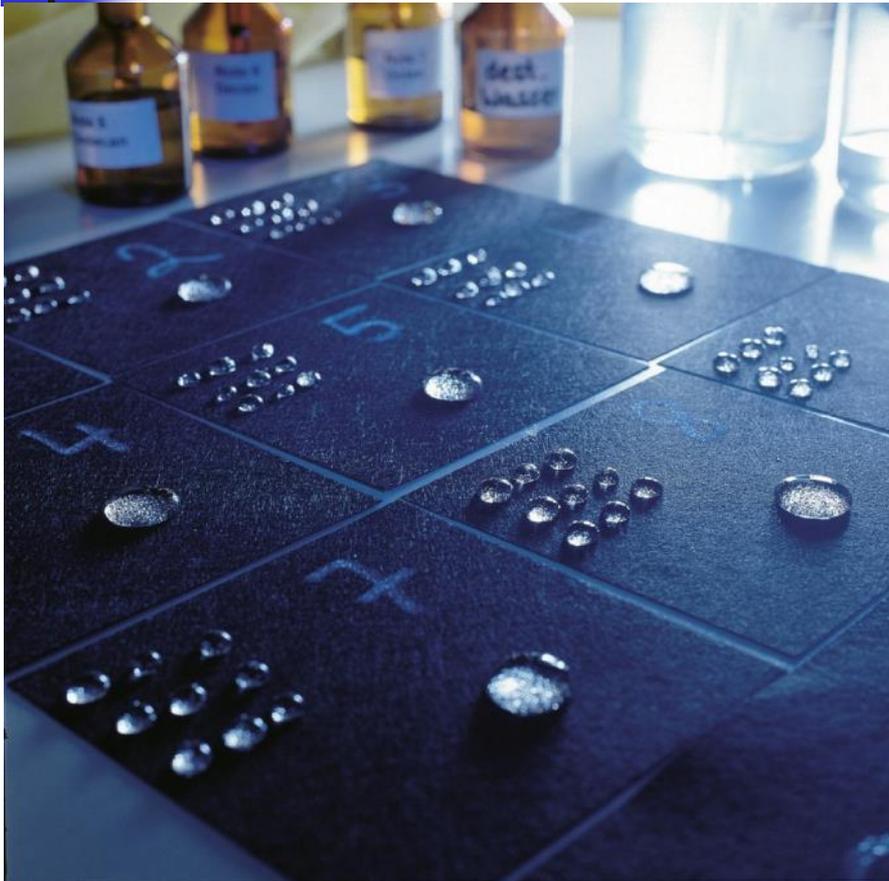
We develop and manufacture

NONWOVENS

For highly demanding technical applications used by the Automotive Industry

- In business for + 160 Years
- In Germany / US / India / China
- 1,500 Employees

Typical Application





ZF Chassis Components
1570 East P Street Extension
Newton, NC 28658



Plant Stats

- 155,000 sq. ft.
- Sales \$167 Mil in 2013
- Headcount – 232
- PPM 6 : 2013

Quality Awards

- TS 16949
- Ford Q1
- ISO 14001

Production Lines

- Suspension components
- Knuckles
- Control arms
- Cross axis joints
- Ball pin machining

Customers

- Mercedes
- Jaguar
- Ford
- BMW
- GM

Materials

- Ductile-Iron
- Cast
 - Aluminum
- Forged
 - Aluminum
 - Steel





Machine Centers

- Heller
- Licon
- Grob
- Index Lathes

Process/Assembly Machines

- Hochrainer
- LSM
- Keiner
- REI
- Induction Hardening
- Laser
 - Cutting
 - Welding

Key Support Systems

- Kuka Robotics
- Promess
- NeuroCheck Vision Systems
- Cognex Vision
- Krups Conveyors
- Knoll chip handling

PLC/Control

- Siemens S7
- Siemens S5
- Siemens 840D
- Siemens 840C
- Allen Bradley
- Uni Pro



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Testimonial

“For the past 4 years, I have had the opportunity to not only attend school to obtain my Associate’s Degree in Mechatronics, but also work in a manufacturing facility learning productive, hands-on trade skills.”

2016
Apprenticeship Catawba
Graduate



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Testimonial

They gave me the opportunity of a lifetime to better myself and to be an important part of the company. I have learned many new skills, such as plastic processing, machining, and mold construction. These skills can only be taught by professional machinists and technicians who have the expertise in the trade.

2016
Apprenticeship Catawba
Graduate





For More Information

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