

The North Alabama Advanced Manufacturing Technology Education Collaborative (NAMTEC)

A Drake State Partnership with
Science and Engineering Services
and Huntsville City Schools



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Advanced Manufacturing Technology

- Launched summer term 2014
- Combines
 - precision machining,
 - 3D engineering design,
 - mechatronics,
 - welding,
 - robotics,
 - additive manufacturing,
 - polymer technology,
 - quality assurance and lean manufacturing



K-12 Partners

- Huntsville City Schools Advanced Manufacturing Academies
 - Grissom High School
 - Jemison High School
- Madison County Schools
 - Madison County Career Tech Center
- Dual Enrollment and Shared Facilities



Manufacturing Partners

- Science and Engineering Services, LLC
- Parker Hannifin
- Strata-G Solutions, Inc.
- Dynetics, Inc.
- Adept Technologies
- Wyle CAS Group
- Yulista



Apprenticeships Available

- SES: 16 hours per week
- Parker Hannifin: variable
- Dynetics: variable
- Adept Technologies: variable
- Wyle CAS Group: variable



Curriculum Design

Advanced Manufacturing

ERP Systems Computer-Aided Manufacturing Metrology
3-D Design and Rapid Prototyping Additive Manufacturing

Mechatronics

Electrical Systems
and Controls

Mechanical and
Fluid Systems

Manufacturing

Metal and Plastic
Forming and
Shaping

Surface Finishing
and Coating

Manufacturing Fundamentals

Manufacturing Processes Industrial Safety Blueprint Reading Mechanical and Fluid Systems
Oral Communication Critical Thinking Applied Mathematics Quality Written Communication



Degree and Certificate Options

- Associate Degree in Advanced Manufacturing
 - With option in _____
- Stackable certificates available in welding, industrial maintenance, robotics, electrical technology, PLCs, 3D design and prototyping, machine shop, CNC milling and turning
- Industry certifications: NIMS, NCCER,

AWS



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Students and Training

- Enrollment in program: 153 students
- SES Manufacturing Apprenticeship
- 3D Design and Rapid Prototyping
- Robotics Programming and Troubleshooting
- Welding Technology





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Q & A



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