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| jscc logo | | | **Goal Progress Report** | |
| **Program:** | **Manufacturing and Technology** | **Report period:** | | **2019-2020** | |

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| **What has your unit accomplished from the goals you proposed in the first year of your most recent Strategic Plan?** | | | |
| **Goals** | **Request & Justification/Resources** | **Goal Progress** | **Strategies Implemented & Follow-up** |
| **Goal 1:**Recruitment Events to attract potential learners into Manufacturing and Technology Career Degree Program offerings:   1. Industrial Maintenance Technology 2. Industrial Electronics 3. Biomedical Equipment Technology 4. Automotive\Automated Manufacturing 5. Computer-Aided Drafting/Design 6. Welding Technology 7. Manufacturing Systems Technology | Develop and initiate onsite and community based hands-on events and technology conferencesDevelop and initiate onsite and community based hands-on events and technology conferences. To attract potential learners into Manufacturing and Technology Career Degree Programs at the Jefferson and Pell City Campuses attract potential learners into Manufacturing and Technology Career Degree Pr   1. Industry 4.0 conferences 2. Adult Education/Secondary learner STEM Camps and PBL (Project Based Learning skills training workshops. 3. Manufacturing Day (Hard Hats-High Heels) 4. Manufacturing Expo Day 5. Transform the Manufacturing and Technology Center into an Advanced Manufacturing Center though the FAME Program. 6. Recruitment events 7. Manufacturing Expo 8. Barber Motor Sports 9. SkillsUSA Navigator Cup 10. Career Fairs 11. Manufacturing Day-Hard Hats, High Heels 12. World of Works (WoW) 13. PowerUp Mother-Daughter Event | STEAM based instructional kits and materials have been purchased . These instructional materials have been used at the recruiting and outreach events listed in the Requests & Justification/Resources Column | The instructional strategies implemented with the instructional kits include:   1. Demonstration of technical & theoretical concepts of automation devices at Outreach Events. 2. World Of Works 3. PowerUp Mother-Daughter Event 4. SkillsUSA Navigator Cup Competition 5. Campus Tours 6. Engaging discussions initiated through hands-on activities at Summer STEAM Camps 7. Delivery of authentic manufacturing technology scenarios through Project Based Learning activities at Summer STEAM Camps. |
| **Goal 2.** Faculty and students have access and educational technology and classroom/lab resources to achieve course, student engagement, and program outcomes.  Maintain the student laboratories with up-to-to-date instructional equipment to provide quality instruction | The computer laboratory hardware and software upgrades will provide effective instructional delivery of content to the Manufacturing and Technology technical learners. Also, upgrading to AutoCAD 2019 software will allow instructional content to be delivered to the learning environment that meets today’s industrial standards and best practices in CADD technology. | Awaiting quote from the IT Department on purchase price of Windows 10 desktop pcs. | No instructional strategies have been implemented as of today. |
| **Goal 3:** Attract, recruit and retain quality full-time and part-time instructors for all options to meet the needs of the program | 1. Hire additional fulltime Welding instructor to provide instruction to teach at the New Shelby-Hoover Welding Lab. 2. Fulltime Lab Assistant to provide technical assistance in the Manufacturing and Welding Technology labs. With this position, Open Labs can be supported for technical learners who need assistance on laboratory assignments. Support times for Manufacturing and Welding Technology learners in the Open Lab consist of 3. Before class 4. Friday or Saturday | A job description and request for position posting has been completed. | Follow up: Check on position posting status for fulltime Welding instructor. |
| **Goal 4:** Maintain the student laboratories with up-to-date instructional equipment to provide quality instruction. | 1. Purchase necessary equipment and supplies to provide high quality campus laboratory experiences. 2. Incorporate suitcase based industrial trainers (Rockwell Automation – Allen Bradley Compact Logix, Siemens HMI Programmable Logic Controllers, and electrical-electronics) into Industrial Controls I (ELM215), Electric Circuits I (ELM200), and Electric Circuits II (ELM201S) technical courses. Trainers will be deployed for the Spring 2020 semester 3. Purchase necessary supporting equipment for new Shelby-Hoover Welding Lab. | Trainers have been purchased and received. Trainers are currently stored in the Manufacturing Technology Building’s Electromechanical Lab (Rm 108).  Welding materials and equipment are being receive and stored at various locations on the Jefferson and Pell City campuses. | The instructional strategies implemented with the trainers include:   1. Electrical wiring of external controls to Allen Bradley PLCs. 2. Testing basic industrial controls using Digital Multimeters (DMM) assisted by Ohms’ Law 3. Demonstration of wiring to an external microcontroller to a suitcase trainer   No instructional strategies have been implemented with the new welding materials and equipment. |
| **Goal 5:** Continue to work with Grant Research Office.   1. Support Grant Initiatives 2. Obtain Grant Funding Educational Goals | 1. Hold outreach events for secondary education (**See Goal 1**) 2. Supporting Women in Manufacturing Hard Hats & High Heels, Manufacturing Expo, Industry 4.0 Conference, and Summer STEAM Camp Events | NSF (Production Technology Instruction) and ARC (Biomedical Equipment Technology Renovation) projects and reports completed. The Amatrol Mechanical Drives and new Nida Electronics equipment have been purchased and installed | The Amatrol Mechanical Drives and new Nida Electronics equipment are being used to provide hands-on instruction in the following courses:  ELM200: Electric Circuits I  ELM201S: Electric Circuits II  ELM202: Digital Circuits I  ELM205: Electronics I  ELM206S: Electronics II  MET220: Mechanical Systems I |
| **Submission date: 4/30/20** | | **Submitted by: Don Wilcher** | |