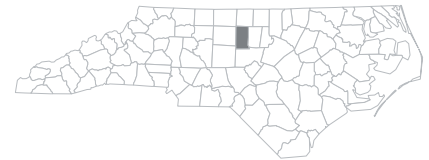


THE ECONOMIC VALUE OF ALAMANCE COMMUNITY COLLEGE'S Mechatronics Program



The Mechatronics program¹ was recently established in 2016. In FY 2019-20, ACC enrolled 129 students in the program. Of these students, six graduated with a certificate and six graduated with an associate degree in FY 2019-20.



ALAMANCE COUNTY, NC

CAREER OUTLOOK

The Mechatronics program can lead students into a number of occupations, which may include electrical & electronic engineering technologists & technicians; electro-mechanical & mechatronics technologists & technicians; and calibration technologists & technicians & engineering technologists & technicians, except drafters, all other. Many of the Mechatronics program students will enter the Alamance County workforce.

Using the county number of annual openings for these occupations (12) and subtracting the FY 2019-20 ACC completers that may fill these openings (12), we find no gap or surplus.² There are nine unique job postings at the associate degree or below for these occupations in Alamance County. The top three posting companies are ABB; Akg Group, Inc.; and Jabil Circuit, Inc.

ALUMNI IMPACT

Former students of ACC's Mechatronics program added \$30.6 thousand in income to the Alamance County economy in FY 2019-20. This figure represents the increased wages collected by former students active today in the county workforce as a direct result of their education, the increased output of businesses that employ these students, and the multiplier effects that occur.

PROGRAM TO OCCUPATION MAPPING MEASURES IN ALAMANCE COUNTY

Number of occupations	5
Jobs (2020)	182
Projected avg. job growth (2020-2029)	+4.9%
Annual openings (2020)	12
Median annual wage (2020)*	\$56,819

* The median annual wage reflects all award levels.

ALUMNI LIFETIME EARNINGS INCREASE AND IMPACT

Lifetime earnings
increase per completer

\$367.7 thousand

Total alumni impact
in FY 2019-20

\$30.6 thousand



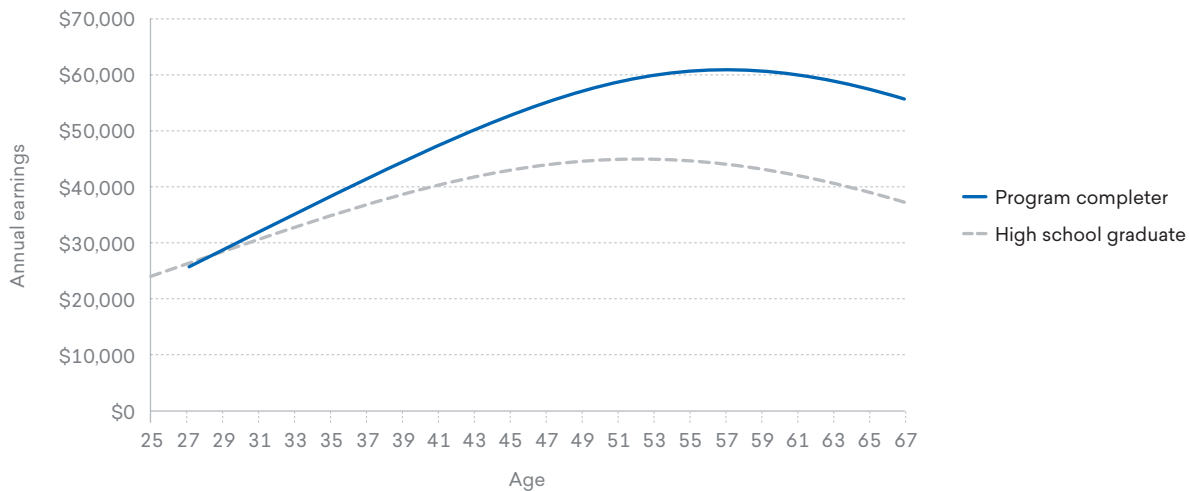
¹ The Mechatronics program is defined by the following Classification of Instructional Programs (CIP) code: Electro-mechanical Technology/Electromechanical Engineering Technology (15.0403).

² For the purposes of this analysis, only ACC completers were considered when comparing to annual openings.

STUDENT RETURN ON INVESTMENT

To earn a degree or certificate in the program, students experience costs in the form of tuition and fees, books and supplies, and the opportunity cost of attending school instead of working. In return for this investment, students can earn higher wages. For every dollar students invest in their education in the program, they will receive \$6.10 back over the course of their working lives. This investment can also be seen in terms of a rate of return of 20.2%. This is an impressive return, especially when compared to the U.S. stock market 30-year average return of 10.6%.

LIFETIME EARNINGS OF A PROGRAM COMPLETER COMPARED TO A HIGH SCHOOL GRADUATE



TAXPAYER BENEFITS

Taxpayers will receive an estimated present value of \$1.1 million in added tax revenue stemming from the students' higher lifetime earnings and the increased output of businesses. Savings to the public sector add another estimated \$71.6 thousand in benefits due to a reduced demand for government-funded social services in North Carolina. Throughout the students' working lives, North Carolina taxpayers will receive a total of \$1.2 million in benefits.

Throughout the students' working lives, **North Carolina taxpayers** gain in added tax revenue and public sector savings



\$1.2 million