



SUCCESS

COOPERATIVE RESEARCH AND DEVELOPMENT AGREEMENT

**CONTRACT
NUMBER:**
15-231-RY-01

**COMPANY
NAME:**
Midmark
Corporation,
Dayton, OH

**TECHNICAL
PROJECT OFFICE:**
Technology
Transfer Program
Office,
Wright-Patterson
AFB, OH

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AFRL SCIENTISTS

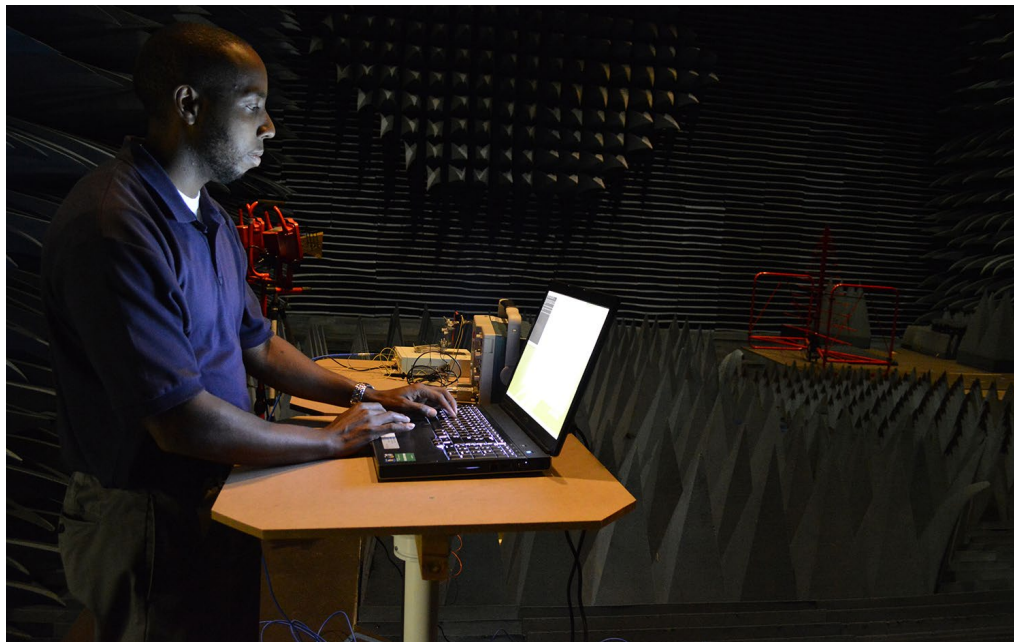
Provide Technical Expertise, Consulting to Local Company Developing Technologies for Physicians

REQUIREMENT

The Air Force Research Laboratory (AFRL) Sensors Directorate at Wright-Patterson Air Force Base in Dayton, Ohio, assisted Midmark Corporation, a multi-national medical products manufacturer, in the investigation of challenges the company was having with development of an information technology product for physicians.

TECHNOLOGY TRANSFER

This one-day consultation was made possible through the creative design and application of a Cooperative Research and Development Agreement (CRADA), a legal agreement that provides quick, unique access to extensive government-funded research and development resources. This opportunity allowed both parties to leverage each other's resources while encouraging the development of potentially sustainable commercial applications.



Dr. Leonard Lightfoot develops information technology tools at the Sensor's Director at Wright-Patterson AFB, Ohio. (Courtesy photo)

Through this CRADA, Midmark was able to tap into AFRL's wealth of knowledge for a deep, educated analysis. AFRL's Dr. Leonard Lightfoot and Dr. Vasu Chakravarthy, wireless communications experts from the AFRL Spectrum Warfare Division of the Sensors Directorate, provided their expertise during the analysis.

TECHNOLOGY INNOVATION

In general terms, Midmark wanted to mine AFRL's radio-frequency expertise to investigate the viability, challenges and specifics of developing a device that would automatically and wirelessly populate a physician's mobile device with pertinent patient information as

they move from one examining room to another.

Dr. Lightfoot said the experience was positive and noted that there were benefits to "being able to see the needs of small companies and how our expertise helps them."

"We kind of sit in a bubble in terms of Air Force needs, but the same knowledge that we have can also benefit commercial markets and the community," Lightfoot said.

Dr. Chakravarthy added that this type of commercial technology transition was "AFRL basically supporting and helping small businesses get a technical edge and giving back to the community."

PAYOFF

The first-of-its-kind CRADA permitted AFRL to collect consulting fees that Midmark would normally pay to subject matter experts. This formal legal collaboration also enabled AFRL subject matter expert participation to be classified as normal duty status.

According to Tina Culpepper, the Sensors Technology Transfer Manager, these opportunities are "a cool way for [your] scientists and engineers to add some neat things to their resume, to demonstrate their standing as lead experts in their fields and generate additional dollars for the laboratory."

Linking technology with the mission and marketplace.

U.S. AIR FORCE TECHNOLOGY TRANSFER PROGRAM OFFICE

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