



Industry News from our Lab Experts

Happy New Year! As organizations and individuals, now is a great time to take a fresh look at what's working and what you'd like to change in the year ahead. And there's no better time to find the people and partners who will position you for success in 2023.

From year to year, one overarching goal guides everything we do at IIA: to make the world a safer place. Providing world-class laboratory services is one way we do that.

IIA continues to grow and expand our reach to better serve customers. Read on to learn more about:

- Our new lab in Danville, Virginia, and how our NDT services will support efforts to streamline submarine manufacture
- How ground-penetrating radar can make your job site safer
- The intricacies of the 6 Degrees of Freedom
- How to choose between CMM and laser scanning
- Ryan Timboe, who works hard, plays hard and always delivers Story-Worthy Service

Whatever your goals, IIA can help you achieve them. Let us know how we can be of service in 2023.

Sincerely,

Nicholas Szkotak

General Manager, Lab

CMM Inspection or Laser Scanning: Choosing the Right Service



Need accurate data on small parts? A coordinate measuring machine (CMM) dimensional inspection is your best bet. But if you need to reverse engineer a part, a laser scan is a better choice.

A CMM inspection defines part features through direct contact with the part, while a laser scan uses a light instead of physical contact to define features. CMM is a highly accurate system, but can be more costly to use for a large quantity of parts. A laser scan is a perfect tool for collecting a lot of data in a very short amount of time. [Explore the capabilities and differences](#) between CMM inspection and laser scanning and learn how IIA's state-of-the-art equipment can help.

Ground-Penetrating Radar: When Surface Answers Won't Suffice



Whether you're modernizing an older structure or building from the ground up, shortcuts on any construction project can be disastrous — even deadly. Ground-penetrating radar (GPR) is a fast, cost-effective way to get the answers you need about subsurface features — without drilling, probing or digging. Taking the time to perform a GPR survey can help keep your job site safe. [Learn More](#)



From Local Government to National Defense: We're Here for You

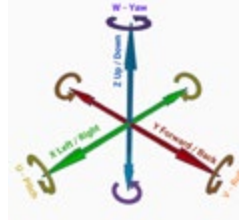
With roots that date back nearly a century, IIA is a leader in the use of non-destructive testing (NDT) for government agencies at the local, state and federal level. Whether we're testing astronaut face shields, bridges, bucket trucks, submarine components or drinking water, safety is our mission at IIA. [Read how](#) we can help make your government or defense project a success.



Ryan Timboe Works Hard, Plays Hard

Ryan Timboe's work ethic — and love of sports — took root early in life. He spent much of his free time working at his father's businesses

in Minot, North Dakota, and sparred with his big brother almost as soon as he could walk. He went on to compete as a sponsored boxer and a snowboarder in "Big Air" competitions. But it was his time working as a roughneck that sparked an interest in mechanical engineering and led him to where he is today. [Get to know Ryan.](#)



What are the "6 Degrees of Freedom"?

The 6 degrees of freedom concept is a representation of how an object moves through 3D space by either translating linearly or rotating axially.

From the human body to vehicles and video game design, the whole world around us is using the six degrees of freedom for every moving application, whether we are aware of it or not. The 6 degrees of freedom is a simple concept that can be easy to apply, as long as you are aware of a few intricacies. [Learn more about 6DOF.](#)

IIA to Support U.S. Navy's Additive Manufacturing Center of Excellence in Danville, VA

IIA will soon open an NDT inspection lab in Danville, Virginia, to provide a variety of non-destructive testing (NDT) services to help ensure the quality of additive manufactured parts for submarines. We are proud to be part of a team of industrial partners, industry experts and government entities working together to support the U.S. Navy Additive Manufacturing Center of Excellence (AM COE) in its efforts to accelerate and scale defense manufacturing. [Read More](#)

"IIA has many technology patents and is a known leader in non-destructive examination and testing services that will contribute to this program and help the Danville area. We're happy to be a part of this innovative team."

- Chris Niebuhr, CEO

What Our Customers Are Saying

"Thank you for your prompt support in the calibration of our ovens. The gentlemen you sent here to provide this service were very professional, kind, hard-working and dedicated to giving us great service." - SEKISUI Aerospace



Let's Connect

We want to hear from you! Let us know about your latest testing challenges and how we can help. Call us at **(866) 514-4937** or complete our [online form](#) and we'll get back to you within 24 hours.

Be sure to follow us on [LinkedIn](#) to learn about the latest tools and techniques we're using to solve our clients' problems and make the world safer.



(866) 514-4937

<https://industrial-ia.com/ia-laboratory-services/>