

## Engineer Sensor Technology (m/w/d)

NDT Global is the leading provider of ultra-high-tech diagnostic inspection solutions, advanced data analysis and integrity assessment services for ensuring the safety and longevity of energy-sector infrastructure assets. Recognized as the forerunner in ultrasonic inspection technologies comprising Pulse Echo, Pitch-and-Catch and Phased Array, as well as Acoustic Resonance (ART Scan) methodologies, the company also deploys a range of non-ultrasonic technologies, such as Inertial Measurement Units, with more under development. NDT Global strategically applies its inspection technologies to detect, diagnose and model various types of threat—circumferential or axial cracks, metal loss, geometry, mapping, and more—across diverse classes of assets. By providing predictive, decision-ready insights driven by the world’s most accurate data, NDT Global enables the conditions for asset owners to optimize infrastructure health and drive operational efficiencies while reducing risk and minimizing their carbon footprint.



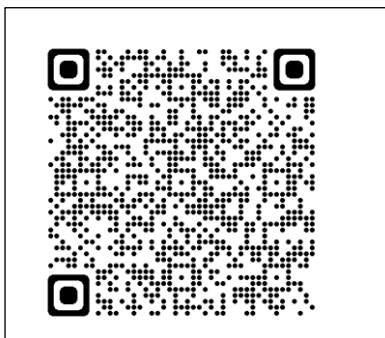
### Purpose

For our Sensor & Measurement Technology team we are looking for a highly motivated and experienced professional that likes to work in a multinational environment. We are developing cutting edge sensors and measurement methodologies for NDT Global's inline inspection services for pipelines. This involves experimental work and the use of state-of-the-art simulations software. Our work also includes the development of signal processing and data visualizations for research purposes and prototype data analysis software. To develop the next generation of inspection services and to improve existing sensors and methodologies our team strives for further advancing the use of quantitative non-destructive evaluation, which is the main purpose of this role. Accordingly, the responsibilities will be

- Advance the use of quantitative non-destructive evaluation methods within the Sensor & Measurement Technology team
- Develop analytical and / or numerical models for sensors and the signal chain
- Identify advanced sensor signal processing methods to improve overall inspection system performance
- Replace time consuming and costly experimental work by predictive modeling
- Identify ways to use existing sensors and measurement methodologies to establish new inspection services.
- Develop sensors and measurement methods for new inspection services.
- Develop prototype algorithms and data visualizations

### Qualification and Education

- At least a Master's degree, possibly a PhD in Acoustics, Physics, Electronic Engineering, or similar
- Work experience of 4-6 years in relevant industry environment preferred
- Experience in the field of acoustics and/or ultrasonics:
  - application of acoustic/ultrasonic techniques,
  - expertise in piezo-electric transducer fundamentals
  - modelling of piezoelectric transducers, and non-destructive testing scenarios based on ultrasonics



### Interested?

Please apply via [Engineer Sensor Technology - Career Portal \(dayforcehcm.com\)](https://dayforcehcm.com)

We are looking forward for your application.

If you have any further questions please do not hesitate to contact Mr. Tom Sander ([Career@ndt-global.com](mailto:Career@ndt-global.com)).