

Many electromechanical systems rely on precise knowledge of how a component moves or changes shape during operation. Measuring position or dimensional characteristics of an element under controlled conditions can provide valuable insights into its condition and performance. This internship focuses on integrating sensors into a controlled test environment to measure these physical characteristics in real time.

About the Assignment

The objective of this internship is to design, integrate, and validate sensing methods that can measure the position, motion, or dimensional state of a mechanical element within a controlled test platform. The resulting system will help characterize element behaviour under various operating conditions.

What You Will Work On

- Investigate sensing technologies suitable for position, displacement, or dimensional measurement (e.g., optical, displacement, or motion sensors).
- Integrate selected sensors into an existing controlled mechanical test setup.
- Develop synchronized data-acquisition routines to collect sensor data during operation.
- Conduct experiments to analyse how different operating conditions influence measured parameters.
- Interpret collected data to assess the condition and behaviour of the element and identify meaningful patterns.

Candidate Profile

- Background in Mechanical Engineering, Mechatronics, Electrical Engineering, Applied Physics, Embedded Systems, or a related technical field.
- Interest in sensors, measurement systems, and prototyping.
- Basic programming and data-analysis skills (Python, MATLAB, or similar).
- Hands-on mindset and an interest in experimental R&D work.
- Ability to work independently and collaborate with experienced engineers.

What We Offer

- A hands-on internship within an innovative R&D environment.
- Guidance from engineers experienced in sensing technologies, data

acquisition, and system testing.

- Opportunity to contribute to real measurement and system-understanding challenges.
- Access to advanced laboratory and testing facilities.

Contact Information

To apply or request more information, please contact:

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Publication date: March 10th, 2026