



### **2.3 ITEM #3 (OPTIONAL): Automatic Sample Rotation for VSM**

Provides measurement of all VSM parameters as a function of the rotation angle from  $-80^{\circ}$  to  $+440^{\circ}$  with a resolution of at least  $0.5^{\circ}$ . The operation of this hardware must include complete automation.

- Range:  $-80^{\circ}\text{C}$  to  $+400^{\circ}\text{C}$
- Accuracy:  $\pm 0.5^{\circ}$

### **2.4 ITEM #4 (OPTIONAL): Vector Sense Coil Measurement System**

The system must allow for simultaneous measurement of hysteresis loops both parallel and perpendicular to the applied field direction. This additional hardware must include an extra set of vector coils and vector preamp, which must operate with the same sensitivity as the primary coils mentioned in Item #1.

## **2 VENDOR DEMONSTRATION**

All system capabilities must be demonstrated by the contractor during the initial installation and will be reviewed prior to final acceptance of the system.

## **3 WARRANTY AND SUPPORT**

The contractor shall offer the Government at least the same warranty terms, including offers of extended warranties, offered to the general public in customary commercial practice. The warranty begins at the conclusion of installation and training.

## **4 INSTALLATION AND TRAINING**

The contractor shall provide complete installation and initial operation of the HTVSM including completely functional software and hardware. The contractor shall provide NRL on-site training immediately succeeding the complete installation of the HTVSM as described in the procurement. There must be on-site training for up to two days for up to six (6) individuals. The training must be extensive and cover all basic operations, calibration, and use of software.

## **5 SITE PREPARATION**

The site for the above equipment is Bldg. 3 Room 216 of the Naval Research Laboratory (Washington, D.C.). This laboratory space will be prepared by NRL staff with power, plumbing, and safety features adequate for the installation of the HTVSM.