

## INTENT TO SOLE SOURCE

Medical University of South Carolina (MUSC) intends to award a single source purchase order to Orchid Monroe, LLC., for the acquisition of Eight (8) Laminated Hiperco 50 magnetic cores, 6"o.d. x 2" i.e. x 2"h. The requested Laminated Hiperco 50 magnetic cores system is an iron alloy consisting of about 49% iron, 49% cobalt, and 2% vanadium, exhibits the highest magnetic saturation of any commercially available alloy, and excels in fields where this attribute is needed. The small amount of vanadium in the core allows it to be workable enough to form into magnetic cores, as a pure, 50/50 iron-cobalt alloy would be extremely brittle. Using this material in magnetic cores allows for more powerful magnetic fields driven by lower electrical currents. When building portable transcranial magnetic stimulation devices, much of the weight of the device is contributed by the power supply and primary capacitor. Using this material in the stimulation coil reduces the burden on power supply and allows the use of much smaller components. This also improves the overall efficiency and thermal management of the device. Furthermore, the cores are constructed from annealed, laminated stacks, which prevents eddy currents from forming orthogonally to the direction of the induced magnetic field. This also improves the efficiency of the coil significantly.

We are requesting the purchase of the following items from Orchid Monroe, LLC.:

- Lamination Cores – 0.006" Laminations – 2" Stacks – Hiperco 50

This notice of intent is not a request for competitive proposals. Any responsible sources who wish to identify their interest and capability to provide these items must notify this Procurement Officer via email at [Walkera@musc.edu](mailto:Walkera@musc.edu), no later than October 23, 2019 12:00AM. Telephone responses will not be accepted. Upon receipt of the interested parties' notification, the Procurement Officer will determine whether to conduct a competitive procurement or proceed with sole source negotiations.