

JUSTIFICATION FOR SOLE SOURCE or BRAND NAME SPECIFIED
(Simplified Acquisitions <\$150K)

The service or material listed on NOBIS/ILRC 16705 is sole source and competition
Document Number Select which is applicable (sole source or brand name)
is precluded for reasons indicated below. There are no substitutes available for this material or service.

Restricted to the following source. Provide original manufacturer or recommended sources that provide brand name. If a sole source manufacturer distributes via dealers, ALSO provide dealer information.

Manufacturer: ANSYS, Inc.

Manufacturer POC: Brenda Elser

Manufacturer Phone #: 916-803-2347

Mfr. Address: 2600 Ansys Drive

Canonsburg, PA 15317
City, State Zip

Dealer / Rep / Recommended Source: _____

Dealer / Rep / Recommended Source address: _____

City, State Zip

Dealer / Rep / Recommended Source Phone #: _____

- Description of the item or service required, the estimated cost, and required delivery date.

Description of item: Purchase of an engineering simulation software package is required for support of the United States Naval Academy Aerospace Engineering academic curriculum, project-based-learning capstone engineering projects, and faculty research. The engineering simulation software package must include a comprehensive Finite Element Analysis (FEA) tool for linear, nonlinear, and dynamic structural analysis, and a comprehensive Computational Fluid Dynamics (CFD) tool with a modern, highly parallelized solver that uses a flexible GUI and user environment. The CFD software must be able to provide bi-directional connections to all major CAD systems, geometry modification and creation tools, advanced meshing technology, and drag-and-drop transfer of data and results to share between applications. It is critical that the CFD software be capable of solving steady-state or transient, incompressible or compressible flows (from low subsonic to hypersonic), laminar or turbulent flows, Newtonian or non-Newtonian flows, and ideal or real gases. It must also have built-in and add-on High Performance Computing (HPC) capability. The engineering simulation software package must be widely used at other undergraduate and graduate institutions and commercial organizations that partner with educational institutions to support research. The engineering simulation software package must also provide a free, downloadable, introductory software package to students to support our engineering students learning.

Estimated cost:
Required delivery date:

- Specific characteristics of the material or service that limit the availability to a sole source / brand name (unique features, function of the item, etc.). Describe in detail why only this suggested source / brand name can furnish the requirements to the exclusion of other sources / brands.

A market research was conducted by investigating commercially available engineering simulation software packages that are available. No other software package combines: FEA, CFD with above described capabilities, and HPC capability in a single integrated engineering simulation software package.

CHECK & FILL IN ALL APPLICABLE BLANKS BELOW

The requested material or service represents the minimum requirements of the government.

The material/service must be compatible in all aspects (form, fit and function) with existing systems presently installed/performing. Describe the equipment/function you have now and how the new item/service must coordinate, connect, or interface with the existing system.

N/A

A patent, copyright or proprietary data limits competition. The proprietary data is:

N/A

These are "direct replacements" parts/components for existing equipment.

Other information to support a sole source / name brand buy:

A comprehensive engineering simulation package is required to support the United States Naval Academy Aerospace Engineering curriculum. That engineering simulation package must combine FEA, CFD, HPC capability, a flexible GUI and user environment, be widely used at other education institutions and commercial organizations, and provide a free, downloadable, introductory software package to students. ANSYS, Inc represents the only vendor that meets these criteria.

