

Company: _____

Address: _____

City/State/Zip: _____ Telephone: _____

Print Name: _____ Title: _____

Authorized Signature: _____

Please note: Installation price must be included in each unit price

Submit your prices using the form below:

QTY	DESCRIPTION	MANUFACTURER	PART/MODEL NO.	UNIT PRICE	TOTAL PRICE
1	12" x 12" Open Circuit Educational Wind Tunnel (EWT) <ul style="list-style-type: none">- Test Section I.D. 11.625" x 11.625" x 24"- Velocity range ~ 5-145 mph (2 – 65 m/s). Custom Speed ranges available.- 10 hp (7.5 kW) Electric Motor- Variable Frequency Drive (VFD)- High-Performance 9 Blade fan- Noise-Reducing Fan Housing- 9:5:1 Contraction Ratio- Honeycomb Flow Straightener- Two (2) Turbulence-Reducing Stainless Steel Screens- Aluminum Test Section with Clear Acrylic Top and Side Windows- Adjustable Yaw Table- Static Pressure Ring for Noninvasive Airspeed Determination- Industrial-Grade Casters				
1	2 Axis Traverse System <ul style="list-style-type: none">- Motorized Y-Z Traverse system provides wall-to-wall traversing capability {Y Travel = 12 inch. Z Travel = 12 inch}- Mounts to Ceiling of Test Section {Includes a ceiling plate with brush sealed slot}- Speed – 1 in/sec- Accuracy in Y and Z Axes = 0.003in over entire travel distance- Repeatability = 0.0002in over short term				

	<ul style="list-style-type: none"> - Includes 2 precision stepper motors, stepper drives, and stepper controllers - Traverse software must include: <ul style="list-style-type: none"> ----Data Acquisition Platform ----Traverse Module (Jog Mode, Single-Point Mode, and Test matrix Import Mode) ----Datalogger and Broadcaster Module (Single-point, Multi-point, Timed Run, and Continuous Sampling included) - Plug and Play USB communication - Maximum 25 lb. load (sufficient for wake survey analysis) - Manually Configurable Limit Switches to permit variation of the motion range - Operations and Maintenance Manual 				
1	<p>Encoder Package for 2 Axis Traverse</p> <ul style="list-style-type: none"> - At least 2 Eglo Magnetic Differential Encoders included for positioning feedback (Excellent Resistance to EMI) - Resolution – 0.001 mm - Accuracy – 0.025 mm - Repeatability = 0.001 mm - At least 2 6-channel, 500 ns digital National Instruments cards - ±5 V to 24 V, differential digital input 				
1	<p>Three-component Force/Moment Balance</p> <ul style="list-style-type: none"> - Normal Force (N) 25 lb. (111n) - Axial Force (A) 10 lb. (44 N) - Pitching Moment (M) 50 in-lb. (5.6 N-m) - Built-in 90° rotation for reading Side Force and Yawing Moment 				
1	<p>Customized Advanced Data Acquisition and control (DAC) System</p> <ul style="list-style-type: none"> - Nation Instruments cDAQ hardware - Desktop Computer - High Precision Mensor Digital Barometer and Differential Pressure Transducer <ul style="list-style-type: none"> -----0.03% Full Scale Accuracy -----NIST Traceable Calibration Certificate - NIST Traceable Dual Relative Humidity and Temperature Probe <ul style="list-style-type: none"> -----2% Full Scale Accuracy Humidity Readings ----- ± 0.5 degree Celsius Temperature Readings - All connectors, wires, cabling, tubing 				

	<ul style="list-style-type: none"> - Temperature and Relative Humidity readings for density corrections - Tunnel Control Module (Maintains either Fan RPM or Tunnel Velocity) <ul style="list-style-type: none"> ----VFD communication via Modbus/TCP ----Open Loop – Command RPM set-point ----Closed Loop – Hold Constant Dynamic Pressure ----Continuous sampling of Static Ring and a Pitot Probe ----Static Inputs for Temperature, Barometric Pressure, and Relative Humidity - Data Logger Module <ul style="list-style-type: none"> ----Single Point, Timed Run, and Continuous data recording ----10,000 Hz Data Acquisition Rate ----Configurable Analog Voltage Inputs for Interfacing 3rd party Instruments - Broadcaster Module <ul style="list-style-type: none"> ----Stream all active tunnel variables ----Shared Variables can be used in other Labview VI's ----Tunnel Calibration Included 				
1	Model Positioning System <ul style="list-style-type: none"> - Manual Pitch (α) control - Manual Yaw (ψ) control 				
1	Airplane Models <ul style="list-style-type: none"> - 1:48th scale F-16 - 1:390th scale 747 				
1	Aluminum Pressure Cylinder <ul style="list-style-type: none"> - 24 pressure Taps 				
1	Pitot-static Probe <ul style="list-style-type: none"> - Mounting Adapter and pressure tubing included 				
1	Drag Model Set (5pc) <ul style="list-style-type: none"> - Sphere, Forward Cup, Backward Cup, Flat Plate, Teardrop 				
1	Aluminum Pressure Wing <ul style="list-style-type: none"> - Clark Y-14 airfoil - 18 pressure taps 				
1	24 – Column Manometer Board				
1	Wake Rake <ul style="list-style-type: none"> - 18 Total – pressure ports 				

2	Installation Support <ul style="list-style-type: none"> - Wiring of Variable Frequency Drive to facility Power - Data-acquisition System Set-up - Basic Overview of Tunnel and Accessories 				
1	Shipping and Handling				