

**Northern Kentucky University
Procurement Services
Invitation to Bid # NKU-48-18**



**Invitation to Bid
For
General Lab Equipment**

February 2, 2018

Proposal NO: NKU-48-18
Issue Date: 2/02/2018
Title: General Lab Equipment
Purchasing Officer: Jennifer Moeves
Phone: 859.572.5266

RETURN ORIGINAL COPY OF PROPOSAL TO:

**Northern Kentucky University
Procurement Services
1 Nunn Drive
617 Lucas Administrative Center
Highland Heights, KY 41099**

IMPORTANT: BIDS MUST BE RECEIVED BY: 02/16/2018 BEFORE 2:00 P.M. HIGHLAND HEIGHTS, KY time.**NOTICE OF REQUIREMENTS**

1. The University's General Terms and Conditions and Instructions to Bidders, viewable at <http://procurement.nku.edu/policies/terms-and-conditions.html>, apply to this Request for Proposal.
2. Contracts resulting from this RFP must be governed by and in accordance with the laws of the Commonwealth of Kentucky.
3. Any agreement or collusion among Offerors or prospective Offerors, which restrains, tends to restrain, or is reasonably calculated to restrain competition by agreement to bid at a fixed price or to refrain from offering, or otherwise, is prohibited.
4. Any person who violates any provisions of KRS 45A.325 shall be guilty of a felony and shall be punished by a fine of not less than five thousand dollars nor more than ten thousand dollars, or be imprisoned not less than one year nor more than five years, or both such fine and imprisonment. Any firm, corporation, or association who violates any of the provisions of KRS 45A.325 shall, upon conviction, may be fined not less than ten thousand dollars or more than twenty thousand dollars.

AUTHENTICATION OF BID AND STATEMENT OF NON-COLLUSION AND NON-CONFLICT OF INTEREST

I hereby swear (or affirm) under the penalty for false swearing as provided by KRS 523.040:

1. That I am the offeror (if the offeror is an individual), a partner, (if the offeror is a partnership), or an officer or employee of the bidding corporation having authority to sign on its behalf (if the offeror is a corporation);
2. That the attached proposal has been arrived at by the offeror independently and has been submitted without collusion with, and without any agreement, understanding or planned common course of action with, any other Contractor of materials, supplies, equipment or services described in the Request for Proposal, designed to limit independent bidding or competition;
3. That the contents of the proposal have not been communicated by the offeror or its employees or agents to any person not an employee or agent of the offeror or its surety on any bond furnished with the proposal and will not be communicated to any such person prior to the official closing of the RFP;
4. That the offeror is legally entitled to enter into contracts with the Northern Kentucky University and is not in violation of any prohibited conflict of interest, including those prohibited by the provisions of KRS 45A.330 to .340, 164.390, and
5. That the Offeror, and its affiliates, are duly registered with the Kentucky Department of Revenue to collect and remit the sale and use tax imposed by Chapter 139 to the extent required by Kentucky law and will remain registered for the duration of any contract award
6. That I have fully informed myself regarding the accuracy of the statement made above.

SWORN STATEMENT OF COMPLIANCE WITH FINANCE LAWS

In accordance with KRS 45A.110 (2), the undersigned hereby swears under penalty of perjury that he/she has not knowingly violated any provision of the campaign finance laws of the Commonwealth of Kentucky and that the award of a contract to a bidder will not violate any provision of the campaign finance laws of the Commonwealth of Kentucky.

CONTRACTOR REPORT OF PRIOR VIOLATIONS OF KRS CHAPTERS 136, 139, 141, 337, 338, 341 & 342

The Contractor by signing and submitting a proposal agrees as required by 45A.485 to submit final determinations of any violations of the provisions of KRS Chapters 136, 139, 141, 337, 338, 341 and 342 that have occurred in the previous five (5) years prior to the award of a contract and agrees to remain in continuous compliance with the provisions of the statutes during the duration of any contract that may be established. Final determinations of violations of these statutes must be provided to the University by the successful Contractor prior to the award of a contract.

CERTIFICATION OF NON-SEGREGATED FACILITIES

The Contractor, by submitting a proposal, certifies that he/she is in compliance with the Code of Federal Regulations, No. 41 CFR 60-1.8(b) that prohibits the maintaining of segregated facilities.

RECIPROCAL PREFERENCE

- (1) Prior to a contract being awarded to the lowest responsible and responsive bidder on a contract by a public agency, a resident bidder of the Commonwealth shall be given a preference against a nonresident bidder registered in any state that gives or requires a preference to bidders from that state. The preference shall be equal to the preference given or required by the state of the nonresident bidder.
- (2) A resident bidder is an individual, partnership, association, corporation, or other business entity that, on the date the contract is first advertised or announced as available for bidding:
 - (a) Is authorized to transact business in the Commonwealth; and
 - (b) Has for one (1) year prior to and through the date of the advertisement, filed Kentucky corporate income taxes, made payments to the Kentucky unemployment insurance fund established in KRS 341.490, and maintained a Kentucky workers' compensation policy in effect.
- (3) A nonresident bidder is an individual, partnership, association, corporation, or other business entity that does not meet the requirements of subsection (2) of this section.
- (4) If a procurement determination results in a tie between a resident bidder and a nonresident bidder, preference shall be given to the resident bidder.
- (5) This section shall apply to all contracts funded or controlled in whole or in part by a public agency.
- (6) The Finance and Administration Cabinet shall maintain a list of states that give to or require a preference for their own resident bidders, including details of the preference given to such bidders, to be used by public agencies in determining resident bidder preferences. The cabinet shall also promulgate administrative regulations in accordance with KRS Chapter 13A establishing the procedure by which the preferences required by this section shall be given.
- (7) The preference for resident bidders shall not be given if the preference conflicts with federal law.
- (8) Any public agency soliciting or advertising for bids for contracts shall make KRS 45A.490 to 45A.494 part of the solicitation or advertisement for bids

DEFINITIONS

As used in KRS 45A.490 to 45A.494: (1) "Contract" means any agreement of a public agency, including grants and orders, for the purchase or disposal of supplies, services, construction, or any other item; and

(2) "Public agency" has the same meaning as in KRS 61.805.

SIGNATURE REQUIRED: This proposal cannot be considered valid unless signed and dated by an authorized agent of the offeror. Type or print the signatory's name, title, address, phone number and fax number in the spaces provided. Offers signed by an agent are to be accompanied by evidence of his/her authority unless such evidence has been previously furnished to the issuing office. Your signature is acceptance to the Terms and conditions above.

DELIVERY TIME:	NAME OF COMPANY:	DUNS #
PROPOSAL FIRM THROUGH:	ADDRESS:	Phone/Fax:
PAYMENT TERMS:	CITY, STATE & ZIP CODE:	E-MAIL:
SHIPPING TERMS: F.O.B. DESTINATION - PREPAID AND ALLOWED	TYPED OR PRINTED NAME:	WEB ADDRESS:
FEDERAL EMPLOYER ID NO.:	SIGNATURE:	DATE:

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General Terms and Conditions and Instructions to Proposers:

<https://inside.nku.edu/procurement/policies/terms-and-conditions.html>

NOTICE OF ADVERTISEMENT**PROJECT TIMETABLE:**

Invitation for Bid Issued	2/02/2018
Last Day for Questions	2/9/2017 at 12:00 pm EST
BIDS DUE	2/16/2018 at 2:00 PM EST

SUBMITTAL OF BID:

The bidder shall submit, by the time and date specified via US Postal Service, courier or other delivery service, its bid response in a **sealed package** addressed to:

**Jennifer Moeves
Buyer, Procurement Services
Lucas Administrative Center, Suite 617
1 Nunn Drive
Northern Kentucky University
Highland Heights, KY 41099**

Both inner and outer envelopes/packages should bear respondent's name and address, and clearly marked on package(s) as follows:

**ITB NKU-48-18
General Lab Equipment**

SPECIFICATIONS

Northern Kentucky University is seeking to purchase General Lab Equipment for our new Health Innovation Center. The university reserves the right to award based on price per unit or overall price per bid, whichever is in the best interest of the university. Multiple awards may be issued for this ITB.

Please see specifications below.

Qty 26: HIC 1040 – Pipetting Package (Equal to Gilson #F167300)

<https://www.fishersci.com/shop/products/gilson-pipetman-starter-kits-3/f167300g?keyword=true>

Description: Pipette Starter Package

- P20 pipette
- P200 pipette
- P1000 pipette
- Two racks of Gilson D200 and D1000 tip,
- Three single Pipette holders,
- Ten COLORIS identification clips
- One Gilson guide to pipetting

Qty1: HIC 1045 – Cryostat (Equal to Leica #CM1860)

<http://www.leicabiosystems.com/histology-equipment/cryostats/products/leica-cm1860/>

Description: Perfect assistant for high quality and safe sectioning.

Leica CM1860 Configuration - 120 V/60 Hz
AgProtect™ nanosilver coating
with Peltier cooling system,
specimen retraction that can be deactivated,
and Premium blade holder for high and low profile
disposable blades.

Instrument features:

Freestanding cryostat with encapsulated,
splash-proof microtome.
Spacious, stainless-steel cryochamber with
antiglare illumination.
Easy to clean and disinfect.
Heated, removable sliding window.
Stable, self-contained cryocabinet on casters.
Collection container for condensing water at
front of instrument.
Outer surfaces and controls of instrument
coated with AgProtect™ nanosilver coating to
reduce risk of infection.
Handwheel may be locked in two positions.
Easy-to-handle and stable clamping system for
clamping the specimen discs.
8° XYZ specimen orientation with zero point reference.
Specimen retraction, (20 µm), can be switched off.

Cryochamber temperature selection from
0 °C to -35 °C, adjustable in 1K
increments at ambient temperature of 20 °C.

Dimensions and weight:

Dimensions (W x D x H): 730 x 730 x 1140 mm

Dimensions (W x D x H): 28.74 x 28.74 x 44.88 inches

Weight: 135 kg - 297.36 lbs

All specifications related to temperature are valid for a room temperature of up to 22 °C and a relative air humidity of 60 %.

Note:

This configuration comes with the Premium blade holder for high and low profile disposable blades.

Standard delivery with Peltier cooling system and Premium blade holder includes:

1 Basic instrument, 120 V/60 Hz, with Peltier (14 0491 46884)

1 Handwheel with marking, antibacterial (14 0477 41346)

1 Set of specimen discs (14 0470 43550):

- „4 Specimen discs, 25 mm (14 0416 19275)
- „4 Specimen discs, 30 mm (14 0370 08587) 1 Section waste tray (14 0471 30787) 1 Storage shelf, right (14 0491 46599) 1 Storage shelf, left (14 0491 46598) 1 Brush shelf (14 0491 46984) 1 Cover for freeze shelf (14 0491 46873) 1 Tool set (14 0436 43463):
- „1 Brush, fine (14 0183 28642)
- „1 Leica brush with magnet (14 0183 40426)
- „1 Allen key, size 1.5 (14 0222 10050)
- „1 Allen key, size 2.5 (14 0222 04137)
- „1 Allen key, size 3.0 (14 0222 04138)
- „1 Allen key, size 4.0 (14 0222 04139)
- „1 Allen key with spherical head, size 4.0 (14 0222 32131)
- „1 Allen key, size 5.0 (14 0222 04140)
- „1 Allen key with handle, size 5.0 (14 0194 04760)
- „1 Allen key, size 6.0 (14 0222 04141)
- „1 Single-head wrench, size 13 (14 0330 33149)
- „1 Single-head wrench, size 16 (14 0330 18595) 1 Bottle of cryostat oil, 50 ml (14 0336 06098) 1 Tissue freezing medium for cryosectioning, 125 ml (14 0201 08926) 1 Pair of cut-resistant safety gloves, size M (14 0340 29011) 1 Knife holder base universal (14 0491 47875) 1 Premium blade holder for high and low profile disposable blades 1 Instructions for use Leica Premium blade holder

Qty 8: HIC 1048 – Fixed Flammable Cabinet (Equal to Fisher Scientific Justrite # 892300)

<https://www.fishersci.com/shop/products/justrite-flammables-undercounter-storage-cabinet/1798561a#?keyword=Flammables+Undercounter+Cabinet>

Description: Flammable Cabinet

- Double-wall construction provides 1-1/2 in. of insulating air space to help prevent the spread of flames High-visibility Haz-Alert™ reflective warning labels offer added safety during power outages or fires
- Dual vents with flame arresters at top and opposite bottom allow hazardous vapors to be piped away Easy-closing, self-latching doors facilitate fire protection of the cabinet
- Self latch engages critical three-point latching system for protection under fire conditions
- Two self-latching manual doors
- Fusible links hold self-closing doors wide open, flush with front of cabinet for easy access and resupply; automatically release and slam doors shut at 74°C (165°F)
- Concealed self-close mechanism provides optimum storage space and obstruction-free access to contents
- SpillSlope safety shelves direct incidental spills to the back and bottom of leakproof sump
- Exterior side panel has built-in grounding connector for easy grounding
- Finished inside and out with durable lead-free powder paint
- Dual vents with flame arresters in back walls
- Kickplate (3.5 x 2.5 in. [8.9 x 6.4cm]) mounts flush with other cabinetry
- Leveling feet adjust to 1.13 in. (2.9cm) for alignment on uneven floors
- Capacity: 22 gal. (3L)
- Backed by an exclusive 10-year warranty
- Meet OSHA and NFPA requirements
- Dimensions: 22L x 35W x 35 in.H (56 x 89 x 89cm).

Qty 2: HIC 1059 – Glass Sliding Door Refrigerator (Equal to Fisher Scientific # 11670250)

<https://www.fishersci.com/shop/products/fisher-scientific-isotemp-general-purpose-series-lab-refrigerators-49-cu-ft-8/p-4904243>

Description: Glass Sliding Door Refrigerator

- Dual, glass sliding doors
- 49 cubic feet capacity
- Inner cabinet storage: Painted interior
- Without chart recorder
- Refrigerator cabinet temperature range: 1 to 12°C (factory setpoint 4°C)
- Digital temperature controller with intuitive interface
- Excellent temperature stability of $\pm 3^{\circ}\text{C}$ and cabinet uniformity of $\pm 3^{\circ}\text{C}$
- High-density, fluorine-free insulation
- Automatic defrost
- Keyed on/off switch
- Optional chart recorder
- High/low, visual/audio alarms
- Choice of solid or glass lockable doors
- Easily accessible contacts for backup monitoring
- Control panel with key
- High-quality steel exterior
- Choice of painted or stainless steel interior
- Casters for easy mobility with leveling for better stability
- Quiet refrigeration system
- Standard access port

Qty 4 HIC 1061 – Tabletop Centrifuge (Equal to Cole Parmer #VV-17414-21)

<https://www.coleparmer.com/i/cole-parmer-centrifuge-4x50-ml-swing-bucket-rotor-110vac/1741421>

Description: Centrifuge with versatile rotor options

- Tube adapter options accommodate tube sizes from 0.5 to 50 mL
- Digital keypad interface is glove-friendly
- Quiet running centrifuge provides a pleasant work setting
- Four-place 50-mL swinging bucket rotor and 5-ft power cord
- Two-line digital display shows status, time, rpm and RCF(g), and the 60-minute timer signals when run is complete.
- Previous settings can be easily repeated for quick testing.
- Stainless steel interior chamber is easily accessible for cleaning and will withstand years of use.

Also include:

- UPI C880-03 Rotor, 24-place 0.5- to 2 mL microtubes for 17414-series centrifuges
Item # SK-17414-92

- UPI C880-01 Rotor, 6-place for 12 mL centrifuge tubes - for use with 17414-series centrifuges
Item # SK-17414-90

Qty 3 HIC 1061a – Centrifuge for Microcentrifuge tubes (Equal to ThermoScientific #Sorvall Legend XTR)

<https://www.thermofisher.com/order/catalog/product/75004506?SID=srch-srp-75004506>

Description: Centrifuge for Microcentrifuge tubes, refrigerated

- Centrifuge, Benchtop; Thermo Scientific; Sorvall Legend XTR, (Refrigerated), 3L Capacity; Max. Speed/RCF 15,200rpm/25,314 x g; CFC-free cooling -10C to +40C; 120V 60Hz Vendor Catalog # 75004521
- Rotor; Thermo Scientific; TX-750; For Sorvall LegendXT/XF and Sorvall ST 40 Centrifuge Series; With PTFE-coated trunions; Maximum capacity: 4 x 750mL; Max. Speed/RCF: 4700rpm/4816xg; 90deg. angle; Rotor body only , Vendor Catalog # 75003180
- Rotor, Swinging Bucket; Thermo Scientific; Round; For TX-750 Rotor; Capacity: 750mL; Max. Speed/RCF: 4700rpm/4816 x g; 90deg.; Accepts 75003609 Lid; Set of 4, Vendor Catalog # 75003608
- Adapter,Tube; Thermo Scientific; For Round Buckets with TX-750 Swinging Bucket Rotor; 50mL; Conical; Max. Capacity: 28 x 50mL; Max. O.O. x L: 29.5 x 120mm; Set of 4 Vendor Catalog # 75003638
- Adapter,Tube; Thermo Scientific; For Round Buckets with TX-750 Swinging Bucket Rotor; 15mL; Conical; Max. Capacity: 56 x 15mL; Max. O.O. xL: 17 x 122mm; Set of 4, Vendor Catalog # 75003639
- Lid, Rotor; Thermo Scientific; ClickSeal Biocontainment; For TX-750 Round Bucket 75003608; Set of 4, Vendor Catalog # 75003609

Qty 7: HIC 1062 – Tabletop Gram Scale (Equal to ULine Ohaus #H-2715)

<https://www.uline.com/Product/Detail/H-2715/Ohaus-Compact-Bench-Scales/Ohaus-CS-Compact-Scale-200-grams-x-1-gram?keywords=H-2715+Ohaus+CS+Compact+Scale+-+200+grams+x+.1+gram>

Description: Tabletop Gram Scale

- 200 grams capacity
- .1 gram accuracy
- 5" round platform
- Lightweight and easy to use.
- G/OZ/N convertible.
- Large, high-contrast LCD display.
- Simple two-button operation.
- Auto shut-off and battery indicator.
- Powered by 3 "AA" Batteries or AC adapter. Both included.

Qty 4 HIC 1063 – pH Meter (Equal to Fisher Scientific Accumet 3 in 1 Bench Set #13636AE153)

<https://www.fishersci.com/shop/products/fisher-scientific-accumet-ae150-ph-benchtop-meter-3-in-1-set/13636ae153#?keyword=accumet%26trade%3B+AE150+pH+Benchtop+Meter+3-in-1+Set>

Description: pH Meter

- One to five point pH calibration
- Includes 13-620-AE6 3-in-1 single junction gel pH/ATC electrode
- Automatic buffer recognition with two pH buffer sets
- pH slope and offset display
- One point mV calibration
- One point ATC temperature probe calibration
- Accuracy (temperature) $\pm 0.3^{\circ}\text{C}$
- Accuracy pH ± 0.01
- pH range 0-14
- Range mV ± 1999 mV
- Resolution pH: 0.01
- Automatic or manual temperature compensation
- Ready icon to indicate measurement stability
- Electrode condition icon to indicate status
- 100 data set storage with non-volatile memory

Qty 7 HIC 1064 – Analytical Balance (Equal Uline Ohaus #H-5276)

https://www.uline.com/BL_1386/Ohaus-Adventurer-Balance-Scales

Description: Analytical Balance

- 5.1" round platform
- Capacity: 420 grams
- Accuracy: .001 gram
- Mg convertible
- Nine application modes, including density determination, dynamic weighing, percent weighing, formulation and totalization.
- G/KG/OZ/LB/OZT/DWT convertible.
- Color touch screen operates with or without lab gloves on.
- Convenient front USB port.
- Powered by AC adapter.
- H-5276 - Includes draftshield with removable glass doors.

Qty 3: HIC 1066 – Dry Ice Freezer Container (Equal to Fisher Scientific Sonoco #03-525-2)

<https://www.fishersci.com/shop/products/sonoco-thermosafe-storage-transport-chests-under-3-75-cu-ft/035252#?keyword=ThermoSafe+Storage%2FTransport+Chests+Under+3.75+Cu.+Ft.>

Description: ThermoSafe Storage/Transport Chests Under 3.75 Cu. Ft.

- Low-temperature storage chests include 124.7kg (275 lb.) bursting test laminated fiberboard exterior and expanded polystyrene foam interior; with insulated lid
- 3.75 cubic feet capacity
- Hard-cased with handles

Qty 6: HIC 1078 – Tabletop Milligram Scale (Equal to Uline Ohaus #H-2716)

<https://www.uline.com/Product/Detail/H-2716/Ohaus-Compact-Bench-Scales/Ohaus-CS-Compact-Scale-2000-grams-x-1-gram?keywords=H-2716+Ohaus+CS+Compact+Scale+-+2%2c000+grams+x+1+gram>

Description: Tabletop Milligram Scale

- 5" round platform
- 2000 g capacity
- 1 g accuracy
- G/OZ/LB:OZ/N convertible.
- Large, high-contrast LCD display.
- Simple two-button operation.
- Auto shut-off and battery indicator.
- Powered by 3 "AA" [Batteries](#) or AC adapter. Both included.

Qty 8: HIC 1133 – Freezer Mitts for -80 Freezer (Equal to Fisher Scientific #191305459)

<https://www.fishersci.com/shop/products/pip-temp-gard-extreme-temperature-gloves-12/191305459?keyword=tru>

Description: Extreme Temperature Gloves

- Works as cryo gloves and liquid nitrogen gloves
- Made from liquid-proof silicone fabric
- Impervious to cryogenic liquids and most other liquids and chemicals
- Easy to clean, will not absorb chemicals and will not stain
- Can be used at temperatures ranging from -196° to +260°C (-321° to +500°F)
- For use in extreme temperature procedures such as cryogenic cleaning, cryogenic systems maintenance and conservation of food produce
- Midarm length, pair
- Black

Qty 3: HIC 1134 – Tabletop Thermocycler (Equal to Fisher Scientific MJ Research #PT-200)

<https://www.marshallscientific.com/MJ-Research-Thermal-Cyclers-s/1910.htm>

Description: Tabletop Thermocycler

- Thermal Range :5° to 105°C, but no more than 30C below ambient temperature (4° to 100°C for the slide Chambers Alpha Unit)
- Thermal Accuracy: $\pm 0.3^{\circ}\text{C}$ of programmed target at 90°C- NIST-traceable $\pm 0.4^{\circ}\text{C}$ well-to-well within 30 seconds of arrival at 90°C (for most Alpha units; see specifications for individual Alpha Units)
- Thermal Uniformity: 90°C (for most Alpha units; see specifications for individual Alpha Units)
- Parallel: 1x 25-pin 8-bit parallel interface printer port
- Serial: 1x 9-pin RS-232 serial port for printer or remote use
- IEEE: one IEEE-488 bidirectional general purpose interface bus
- Display: one 20 x 4 LCD alphanumeric display
- W x L x H: 12 x 12 x 12 in
- Weight lbs: 25

Qty 2: HIC 1135 – Cabinet for Controlled Substance Storage (Equal to Healthcare Logistics Inc #3886)

<http://shop.gohcl.com/default.aspx?page=item%20detail&itemcode=3886>

Description: Controlled Substance Storage Cabinet

- 20-gauge steel cabinet has a double walled outer door and a panel door, both attached with full-length continuous hinges. Predrilled holes for mounting.
- Includes three adjustable shelves.
- One key lock per door, keyed differently. Two keys per lock. The original key is needed to make duplicates.
- Dimensions: 18"W x 30"H x 8"D
Inside Dimensions without shelves:
17-7/8"W x 29-7/8"H x 7-11/16"D
- Shelf Dimensions:
17-7/8"W x 6-1/16"D

Qty 1: HIC 1136 – Real Time qPCR Thermocycler (Equal to Thermofisher Scientific #4366604)

<https://www.thermofisher.com/order/catalog/product/4366604?SID=srch-srp-4366604>

Description: Real Time qPCR Thermocycler

- Calibrated Dye: Cy3™, Cy5™, FAM™, JOE™, NED™, ROX™, SYBR® Green I, TAMRA™, Texas Red®, VIC™
- Dimensions: Depth: 45 cm (17.72 in), Height: 49 cm (19.29 in), Width: 34 cm (13.39 in)
- Dynamic Range: 9 logs
- External Computer: 1 GB RAM, 16XDVD+/-RW, 80 GB HD, Dell OptiPlex GX620 Minitower, Pentium IV 630/3 GHz
- For Use With (Equipment): 7500 System
- Format: 96-well plate
- High Throughput Compatibility: Multiplexing
- Input Voltage: 120V
- Optics: 5 emission filters, 5 excitation filters, CCD Camera, Tungsten-halogen lamp
- Passive Reference Dye: No ROX, ROX (Pre-mixed), ROX (Separate Tube)
- Peak Block Ramp Rate: 2.5°C/sec
- Power Limit: 950 W
- Precision: 99.7% confidence (5000 & 10000 copies)
- Product Line: Primer Express™
- Product Size: 1 system
- Reaction Speed: Standard
- Reaction Volume Range: 20-100 µl
- Sample Ramp Rate: ± 1.1°C/sec
- Sensitivity: 1 copy of RNase P gene (human genomic DNA)
- Software Compatibility: 7500 System Software, GeneMapper® ID v3.2, HID Real-Time PCR Analysis Software v1.1
- Temperature Accuracy: 0.25°C (35°C to 95°C after 3 min)
- Temperature Range (Metric): 4-100°C
- Temperature Uniformity: 0.50°C (after 30 sec)
- Thermal Cycling System: Peltier-Based System
- Throughput: 4 to 5-96-well plates per 8-hr day
- Weight: 75 lbs

Qty 1: HIC 1142 – Centrifuge for 15 ml Microcentrifuge tubes (Equal to ThermoScientific #Sorvall Legend XTR)

<https://www.thermofisher.com/order/catalog/product/75004506?SID=srch-srp-75004506>

Description: Centrifuge for Microcentrifuge tubes, refrigerated

- Centrifuge, Benchtop; Thermo Scientific; Sorvall Legend XTR, (Refrigerated), 3L Capacity; Max. Speed/RCF 15,200rpm/25,314 x g; CFC-free cooling -10C to +40C; 120V 60Hz Vendor Catalog # 75004521
- Rotor; Thermo Scientific; TX-750; For Sorvall LegendXT/XF and Sorvall ST 40 Centrifuge Series; With PTFE-coated trunions; Maximum capacity: 4 x 750mL; Max. Speed/RCF: 4700rpm/4816xg; 90deg. angle; Rotor body only , Vendor Catalog # 75003180
- Rotor, Swinging Bucket; Thermo Scientific; Round; For TX-750 Rotor; Capacity: 750mL; Max. Speed/RCF: 4700rpm/4816 x g; 90deg.; Accepts 75003609 Lid; Set of 4, Vendor Catalog # 75003608
- Adapter,Tube; Thermo Scientific; For Round Buckets with TX-750 Swinging Bucket Rotor; 50mL; Conical; Max. Capacity: 28 x 50mL; Max. O.O. x L: 29.5 x 120mm; Set of 4 Vendor Catalog # 75003638
- Adapter,Tube; Thermo Scientific; For Round Buckets with TX-750 Swinging Bucket Rotor; 15mL; Conical; Max. Capacity: 56 x 15mL; Max. O.O. xL: 17 x 122mm; Set of 4, Vendor Catalog # 75003639
- Lid, Rotor; Thermo Scientific; ClickSeal Biocontainment; For TX-750 Round Bucket 75003608; Set of 4, Vendor Catalog # 75003609

Qty 1: HIC 1145 – Microplate Reader with Computer (Equal to Molecular Devices #Spectramax 190)

<https://www.moleculardevices.com/systems/microplate-readers/absorbance-readers/spectramax-190-microplate-reader>

Description: Microplate Reader with Computer

- Dimensions (in) 8.6 H x 22.8 W x 15 D
- Dimensions (cm) 22 H x 58 W x 38 D
- Weight 30 lbs (13/66 kg)
- Power Source 90-250 VAC, 50/60 Hz
- Wavelength Range 190-850 nm
- Wavelength Selection Monochromator, tunable 1/0 nm increments
- Wavelength Bandwidth ≤ 2.0 nm
- Wavelength Accuracy ± 1.0 nm
- Wavelength Repeatability ± 0.2 nm
- Photometric Range 0.0 to 4.0 OD
- Photometric Resolution 0.001 OD
- Photometric Accuracy $< \pm 0.006$ OD $\pm 1.0\%$, 0.0 - 2.0 OD

- Photometric Precision $< \pm 0.003 \text{ OD} \pm 1.0\%$, 0.0 - 2.0 OD
- Stray Light $\leq 0.07\%$ at 340 nm
- OD ≥ 3.15
- Light Source Xenon flash lamp
- Microplate Read Time - Endpoint 9 seconds
- Microplate Read Time - Kinetic 9 second minimum interval
- Temperature Range Ambient + 4 °C up to 45 °C
- Temperature Uniformity $\pm 0.5 \text{ °C}$ @ 37 °C
- Computer/Monitor

Qty 1: HIC 1147 – Floor Model Liquid N2 Container (Equal to Thermoscientific #CK50920)

<https://www.thermofisher.com/order/catalog/product/CK50920?SID=srch-hj-CK50920>

Description: Floor Model Liquid N2 Container

- Product Size: Diameter (English) 10.2 in., Diameter (Metric), 25.9cm
- Capacity: 10L
- Average Daily Consumption: 3L/day
- Diameter (Metric) Inside Neck: 5.08cm
- Diameter (English) Inside Neck: 2 in.
- Model: Arctic Express Dual 10
- Static Holding Time: 21 shipper/42 lab
- Type: Manual Fill LN2 Dewar
- Vial Capacity: 150 x 2mL

Qty 1: HIC 1149 – MilliQ Water Purification System (Equal to Millipore Sigma# ZRXQ003WW)

http://www.emdmillipore.com/US/en/product/Milli-Q-Integral-Water-Purification-System-for-Ultrapure-Water,MM_NF-C72876

Description: Milli-Q® Integral Water Purification System for Ultrapure Water

• Water Quality	• Feed Water Nature	• Flow Rate (L/h)
• Type 1, Type 2	• Potable Tap Water	• 3 L/h
• Description		
• Catalogue Number	• ZRXQ003WW	

• Description	
• Description	• Milli-Q® Integral 3 Water Purification System
• Overview	<p>• The Milli-Q® Integral system includes a comprehensive and optimized sequence of water purification and monitoring technologies in a single unit, allowing both pure and ultrapure water to be produced directly from tap. It provides pressurized, bacteria-free water through E-POD® (Elix®-Point-of-Delivery) units and Milli-Q® ultrapure water through Q-POD® (Quality-Point-of-Delivery) units. Water can be delivered from the system's exclusive production unit to as many as 3 independent PODs that can be conveniently located at different places in the laboratory. Each POD incorporates a color backlit screen enabling the user to check the operation of the entire system and the water quality at a glance. The ergonomic design of the PODs accounts for the height and shape of regular laboratory glassware to ensure optimum user convenience.</p>
• Product Information	
• Components	<p>• This is a web reference. The end letters "WW" will be replaced by the country letters on your invoice to have the right shipping kit for the country. This ensures you receive the user manual in local language and a power cord adapted to the local electrical network.</p>
• Daily Product Water Usage	• 60 L/Day
• Feed Water Nature	• Potable Tap Water
• Product Water Particulates	• < 1 unit/mL (particulates >0.22 µm - with Millipak® filter)
• Water	• Type 1

<ul style="list-style-type: none"> Product Information 	
<ul style="list-style-type: none"> Quality 	<ul style="list-style-type: none"> Type 2
<ul style="list-style-type: none"> Applications 	
<ul style="list-style-type: none"> Application 	<ul style="list-style-type: none"> The most integrated ultrapure system producing Milli-Q® and Elix® water quality. Pre-equipped for Q-POD® and E-POD® remote dispensers.
<ul style="list-style-type: none"> Biological Information 	
<ul style="list-style-type: none"> Product Water DNase 	<ul style="list-style-type: none"> Ultrapure water: < 5 pg/mL (with Biopak® Polisher)
<ul style="list-style-type: none"> Product Water Microorganisms 	<ul style="list-style-type: none"> Ultrapure water: < 0.01 CFU/mL (with Millipak® or Biopak® point-of-use filters)
<ul style="list-style-type: none"> Product Water Pyrogens 	<ul style="list-style-type: none"> Ultrapure water: < 0.001 EU/mL (with Biopak® Polisher)
<ul style="list-style-type: none"> Product Water RNase 	<ul style="list-style-type: none"> Ultrapure water: < 1 pg/mL (with Biopak® Polisher)
<ul style="list-style-type: none"> Physicochemical Information 	
<ul style="list-style-type: none"> Make-up flow rate 	<ul style="list-style-type: none"> 3 L/h
<ul style="list-style-type: none"> Flow Rate 	<ul style="list-style-type: none"> 3 L/h
<ul style="list-style-type: none"> Product Water Resistivity at 25 °C 	<ul style="list-style-type: none"> Pure Water: >5 MΩ·cm Ultrapure Water: 18.2 MΩ·cm
<ul style="list-style-type: none"> Product Water 	<ul style="list-style-type: none"> < 5 ppb

<ul style="list-style-type: none"> Physicochemical Information 	
TOC	
<ul style="list-style-type: none"> Voltage 	<ul style="list-style-type: none"> 100–240 V / 50–60 Hz
<ul style="list-style-type: none"> Dimensions 	
<ul style="list-style-type: none"> Height 	<ul style="list-style-type: none"> 50 cm (19.7 in)
<ul style="list-style-type: none"> Width 	<ul style="list-style-type: none"> 33.2 cm (13.07 in)
<ul style="list-style-type: none"> Depth 	<ul style="list-style-type: none"> 48.4 cm (19 in)
<ul style="list-style-type: none"> Operating Weight 	<ul style="list-style-type: none"> 24 kg (52.9 lb)
<ul style="list-style-type: none"> Product Water Instant Delivery Rate 	<ul style="list-style-type: none"> Up to 2 L/min
<ul style="list-style-type: none"> Product Usage Statements 	
<ul style="list-style-type: none"> Validation Support 	<ul style="list-style-type: none"> Full Support
<ul style="list-style-type: none"> WEEE Directive 	<ul style="list-style-type: none"> In the European Union, this product will be considered Waste Electric and Electronic Equipment (WEEE) at the end of its life. Please click here for details on returning it for recycling.
<ul style="list-style-type: none"> Packaging Information 	
<ul style="list-style-type: none"> Material Size 	<ul style="list-style-type: none"> 1

Qty 1: HIC 1151 – Gel Imaging System & computer(Equal to Labnet International Enduro#GDS-1302)

<http://northamerica.labnetinternational.com/products/electrophoresis-and-molecular-biology-equipment/enduro-gel-documentation-systems/enduro>

Description: Gel Imaging System with computer

- Camera: 5 MP (2592 x 1944), scientific grade sensor
- Lens: 8 mm, F 1.4 hands free lens with Smart Capture technology
- Cabinet: Built in 302nm UV trans-illuminator with safety cut-off switch
- Dimensions: 34.6 x 31.1 x 68.6 cm
- Weight: 21.4 kg
- Computer
- Clear Gel Tray
- White Light Conversion Tray
- Blue Light Conversion Tray
- Printer, P-95 DW
- Thermal Paper

Qty 1: HIC 1152 – NanoDrop & computer(Equal to Thermoscientific #Nanodrop 2000LAPTOP)

www.thermofisher.com/order/catalog/product/ND-2000?SID=srch-srp-ND-2000

Description: Microvolume Spectrophotometer & computer

- Absorbance Accuracy 3% (at 0.74 Abs at 350nm)
- Absorbance Range 0 to 300Abs
- Accuracy 0.002
- Accuracy (Absorption) 3% at (0.74 at 350nm)
- Applications Nucleic Acid Quantification, DNA Quantification, RNA Quantification, Protein Quantification
- Certifications/Compliance UL/CSA and CE
- Compatibility MicrosoftWindows XP (32-bit) w/Service Pack (SP) 2 or later,Vista (32-bit), and Windows 7 (32 bit and 64 bit)
- Concentration 2ng/μl-15,000ng/μl (dsDNA) ng/μl
- Connections USB
- Depth (Metric) 20cm
- Description Microvolume Spectrophotometer
- Detection Limits 2ng/μl (dsDNA) ng/μl
- Detection Range 2-15,000ng/μL (dsDNA), 0.10 - 400mg/mL (BSA)
- Detector Type 2048-element linear silicon CCD array
- Footprint 14 x 20cm
- Includes Laptop Computer
- Item Description NanoDrop 2000 with laptop computer

- Interface Laptop Computer
- Lamp Xenon Flash
- Measurement Time <5 sec.
- No. of Samples 1
- Pathlength (Metric) 0.05, 0.1, 0.2, and 1.0mm
- Power Consumption 12VDC
- Sample Volume (Metric) 0.5-2.0 μ L
- Spectral Resolution =1.8nm (FWHM at Hg 253.7)
- System Requirements MicrosoftWindows XP (32-bit) w/Service Pack (SP) 2 or later,Vista (32-bit), and Windows 7 (32 bit and 64 bit)
- Type Spectrophotometer
- Volume (Metric) 0.5 to 2.0 μ L
- Voltage 12VDC
- Wattage 5W
- Wavelength Accuracy \pm 1nm
- Wavelength Range 190-840nm
- Weight (English) 2kg
- Weight (Metric) 2.0kg
- Width (English) 14cm
- Width (Metric) 14cm
- Warranty 1 year parts and labor

Qty 1: HIC 1153 – Water Bath(Equal to Fisher Scientific #S28124)

<https://www.fishersci.com/shop/products/isotemp-general-purpose-deluxe-water-bath/s28124#?keyword=water+bath>

Description: General Purpose Deluxe Water Bath

• Bath Volume	5L (1.3 GAL)
Temperature Range (Metric)	Ambient to 100°C
Chamber Material	Stainless steel
Temperature Presets	3
Amperage	2.2-2.7 / 1.0-1.3 (120V/230V)
Certifications/Compliance	UL, CE
Dimensions (D x W x H) Interior	6.1 x 11.8 x 5.99 (154 x 300 x 150mm)
Display	Monochrome LCD
Temperature Stability	±0.2°C
Heating Capacity	300W
Cabinet Material	Epoxy powder-coated steel
Model	Isotemp GPD 05
Temperature Uniformity	±0.2°C
Description	5L Deluxe General Purpose Water Bath
Dimensions (L x W x H) Exterior	9.7 x 14 x 9.1 in. (246 x 355 x 232mm)
Controller Type	Digital
Includes	Polycarbonate Gable Cover, Diffuser Tray

Qty 1: HIC 1158 Vibratome (Equal to Leica Biosystems #VT-1200S)

<http://www.leicabiosystems.com/histology-equipment/sliding-and-vibrating-blade-microtomes/vibrating-blade-microtome/products/leica-vt1200-s/>

Description: Vibratome, Vibrating Blade

General data:

- Cutting frequency (± 10 %): 85 Hz (± 10 %)
- Amplitude: from 0–3 mm, in 0.05 mm increments
- Cutting speed (± 10 %): 0.01–1.5 mm/s
- Return speed (± 10 %): 1.0–5 mm/s, in 0.5 mm/s increments
- Total vertical specimen stroke: 20 mm (motorized)
- Cutting range: 45 mm
- Cutting window: 0.5 mm–45 mm, adjustable (VT1200S only)
- Specimen retraction: 0–100µm (adjustable, can be deactivated, VT1200S only)
- Maximum specimen size:
- With standard blade holder: 33 x 50 mm
- Specimen orientation, rotating: 360°
- Specimen plate, swiveling: 0–10 °
- Section thickness adjustment: manual in 1µm increments or automatic max. 1000 µm
- Approval: CE, c_CSA_us

Ambient conditions:

- Operating temperature range: min. 10 °C–max. 35 °C
- Relative humidity: max. 60 %
- Storage temperature: 5–55 °C
- Storage humidity: < 60 %
- Height: up to 2000 m NN
- Electrical data:
- Rated voltage range ($\pm 10\%$): 100V–240 V
- Rated frequency ($\pm 10\%$): 50/60 Hz
- Power consumption: 35 VA
- Protection class: I
- Power fuses: T 1A L 250 V
- Pollution degree: 2
- Overvoltage category: II
- Electrical overload protection: yes
- Internal current limit for the electronics: yes
- Dimensions: L x W x H: 600 mm x 250 mm x 230 mm
- Height with magnifier support: 600 mm x 250 mm x 320 mm
- Height with microscope: 600 mm x 250 mm x 490 mm
- Control unit (when the bases are folded in): 190 mm x 150 mm x 72 mm
- Weight: Without magnifier support and control unit: 56 kg
 - VT1200S control unit: 1 kg
 - Magnifier support: 2 kg
 - Microscope support with stereomicroscope: 4 kg

Qty 4: HIC 1231 – First Aid Kit (Equal to Fisher Scientific #191302486)

<https://www.fishersci.com/shop/products/north-bulk-first-aid-kits-16/191302486?keyword=true>

Description: First Aid Kit

- 32 Adhesive bandage,
- 1 x 3 in., plastic,
- 3 Adhesive bandage,
- fingertip, cloth,
- Adhesive bandage, extra large,
- 2 Adhesive bandage, knuckle, cloth, Two 0.5 in. x 2.5 yd.
- Adhesive tape,
- 6 Antimicrobial towelettes,
- Two 2 in. x 6 yd. conforming bandage nonsterile,
- 3 in. x 6 yd. conforming bandage,
- 2 in. Elastic bandage,
- Eye-Lert™, 1 oz. eyewash, Eye pad, sterile,
- 6 First aid or burn cream with aloe,
- First aid guide,
- Forceps, pointed Plastic,
- fore 2 x 2 in. Gauze pads sterile,
- 3 x 3 in. Gauze pads sterile,
- Instant cold pack,
- 4 Pair Medical gloves, synthetic
- Metal Case

Qty 3: HIC 1232 – Fire Blanket (Equal to Fisher Scientific # S47567A)

<https://www.fishersci.com/shop/products/cotton-goods-fiterite-fire-blankets-with-pouch/s47567a#?keyword=fire+blanket>

Description: Fire Blanket

- Material: 80% wool
- With pouch

Qty 8: HIC 1262 – Glass Disposal Container (Equal to Fisher Scientific #S41263)

<https://www.fishersci.com/shop/products/fisherbrand-glass-disposal-boxes-5/p-2378523#?keyword=fisherbrand+glass-disposal+boxes>

Description: Glass Disposal Container

- When boxes are full of glass, simply remove the lid and flip up the rear flap to seal
- Polybag liner for wet glassware can be sealed for safer disposal
- Prevent injuries from broken glass
- Printed for maximum visibility
- Floor Model dimensions: 12L x 12W x 27 in.H (30.5 x 30.5 x 68.6cm)

Qty9: HIC 1263 – Eyewash (Equal to Fisher Scientific #S93954)

<https://www.fishersci.com/shop/products/bel-art-scienceware-plum-emergency-eyewash-stations-3/p-3633477#?keyword=SP+Scienceware+PLUM+Emergency+Eyewash+Station+Refills>

Description: Eyewash

- Convenient, wall-mountable, open eye wash stations
- Bottles are sterile filled and sealed, and require no maintenance or cleaning
- Stations feature clear instructional pictograms on front, polished metal mirror on inside of lid
- Flexible, form-fitting eyecups feature dust caps, and ensure gentle and efficient rinsing
- Can be dispensed upright or inverted
- Eyewash stations are equipped with 200mL sterile pH neutralizing eyewash solution and 500mL sterile saline eyewash solution
- Rinse times: 500mL: approximately 5 min./bottle, 1000mL: approximately 10min./bottle, pH Neutralizing Eye Wash approximately 2 min./bottle
- Double stations are convenient for multi-use areas, laboratories and classrooms
- Double stations available with either two bottles of Sterile Saline Eye Wash (500mL or 1000mL), or with 200mL pH Neutralizing bottle and one 500mL Sterile Saline Eye Wash bottle
- Bottles have three year shelf life from date of manufacture and require no on-going maintenance

Qty 26: HIC 1272 – Pipette Racks (Equal to Fisher Scientific #F161405)

<https://www.fishersci.com/shop/products/gilson-accessory-pipetman-complete-pipetting-system-trio-pipet-stand/f161405g?searchHijack=true&searchTerm=F161405G&searchType=RAPID&matchedCatNo=F161405G>

Description: Pipette Racks

- Singled, transparent design provides convenient and secure way to store Gilson pipets
- Transparent body allows to see objects placed behind
- Accessory for use in fume hood
- Holds 3 pipettes

Qty 7: HIC 1284 – Disposable Mask Holder (Equal to ULine – #H3810)

<https://www.uline.com/Product/Detail/H-3810/Dust-Masks-and-Respirators/Dust-Mask-Dispenser?keywords=H-3810+Dust+Mask+Dispenser>

Description: Disposable Mask Holder

- Keeps masks clean and easily accessible.
- Crack-resistant acrylic.
- Holds up to 60 masks.
- Place on table or wall mount.

Qty 3: HIC 1291 – “Car Boys” for MilliQ Water System (Equal to US Plastics Corp. #73087)

<https://www.usplastic.com/catalog/item.aspx?itemid=33990>

Description: Car Boy with spigot

- 5.5 Gallon
- Polypropylene carboy, cap, spigot & spigot closure
- Spigot boss molded in
- Includes 1/4"-5/16"ID tubing adapter
- Neck accepts No. 13.5 rubber stopper
- Graduated in gallons & liters
- Integral shoulder handles make lifting comfortable
- Leakproof
- Autoclavable
- Meets FDA standards

Qty 1: HIC 1292 – Gel-rigs Electrophoresis (Equal to Fisher Scientific. #S98630)

<https://www.fishersci.com/shop/products/thermo-scientific-owl-separation-b1a-easycast-mini-gel-electrophoresis-system/s98630?searchHijack=true&searchTerm=S98630&searchType=RAPID&matchedCatNo=S98630>

Description: Gel-Rigs Electrophoresis

- Enables casting and running a gel in the buffer chamber
- Run 5 to 24 samples in 15 minutes
- The two comb slots on the UV Transmissible (UVT) gel tray double sample capacity by doubling the number of sample wells
- Heavy-duty, one-piece combs eliminate comb assembly
- UVT gel trays are silk screened with a fluorescent ruler for easy measurement of bands
- 8L x 7cmW (3.1 x 2.8 in.) gel size
- 16L x 10.5W x 9.5cmH (6.3 x 4.1 x 3.7 in.) footprint
- 400mL running buffer volume

Analysis Time	30 to 60 min.
Includes	Main Buffer chamber, SuperSafe™ lid with attached power supply Leads, EasyCast™ gasketed UV transparent gel tray, two heavy duty, one piece, double sided combs: 6 and 10-well, 1/1.5mm thick
Voltage	20/150V
Product Type	Mini gel electrophoresis system
Volume (Metric) Buffer	400mL
Length (Metric) Gel	8cm
Width (Metric) Gel	7cm
Height (Metric) Exterior	9.5cm
Length (Metric) Exterior	16cm
Width (Metric) Exterior	10.5cm
Dimensions (L x W x H) Exterior	6.3 x 4.1 x 3.75 in. (16 x 10.5 x 9.5cm)
Sample Size	5 to 24
Warranty	3 Years
Volume (English) Buffer	13.5 oz.
Length (English) Gel	3.1 in.
Width (English) Gel	2.7 in.
Height (English) Exterior	3.75 in.
Length (English) Exterior	6.3 in.
Width (English) Exterior	4.1 in.
Certifications/Compliance	EN61010-1-1993 (IEC1010-1), CE

Qty 1: HIC 1296 – Automated Cell Counter (Equal to Fisher Scientific Countess II #AMQAX1000)

<https://www.fishersci.com/shop/products/life-technologies-countess-ii-automated-cell-counter/amqax1000#?keyword=countess+ii>

Description: Automated Cell Counter

- Countess USB drive for storing and transferring data to your computer
- Disposable slide holder
- Power cord and 4 plug adaptors to accommodate most countries
- Quick reference card (QRC)
- A free box of 50 disposable slides
- Computer

Capacity	One 2-chamber disposable slide
Depth (Metric)	139.7 mm
Height (English)	9 in.
Includes	Countess USB drive for storing and transferring data to your computer, Disposable slide holder, Power cord and 4 plug adaptors to accommodate most countries, Quick reference card (QRC), A free box of 50 disposable slides
Size	Cell Size: 4-60 µm (detection), 7-60 µm (viability)
Weight (English)	8 lb.
Width (Metric)	228.6 mm
Product Type	Automated Cell Counter
Depth (English)	5.5 in.
Display Type	7" Capacitive touch screen
Height (Metric)	228.6 mm
Memory	USB Stick
Voltage	100-240 VAC
Width (English)	9 in.
For Use With (Application)	Cell Counting, Viability and Cryopreservation

Qty 1: HIC 1297 – Qubit DNA Analyzer(Equal to ThermoFisher #Q33217)

<https://www.fishersci.com/shop/products/qubit-3-0-quantitation-starter-kit/q33217?searchHijack=true&searchTerm=Q33217&typeAheadCat=fisherCatNum&matchedCatNo=Q33217>

Description: Qubit DNA Analyzer

- Powerful dual-core processor quickly and accurately quantifies DNA, RNA, and protein in less than 5 seconds per sample
- Uses samples as little as 1µL up to 20µL
- Stores up to 1000 sample results
- Large, 5.7-inch, state-of-the-art color touch screen for easy workflow navigation
- Ability to personalize Qubit fluorometer with the frequently run assays, add new assays, or even create custom assays with the MyQubit software and web tool
- Small footprint saves bench space
- Language options include English, French, Spanish, German, simplified Chinese and Japanese
- Android-based operating system

Voltage	100-240VAC
Includes	Qubit 3.0 Fluorometer (Mfr. No. Q33216); Qubit Assay Tubes, Pk. of 500 (Mfr. No. Q32856); Qubit dsDNA BR Assay Kit, 100 assays (Mfr. No. Q32850); Qubit dsDNA HS Assay Kit, 100 assays (Mfr. No. Q32851); Qubit RNA HS Assay Kit, 100 assays (Mfr. No. Q32852); and Qubit Protein Assay Kit, 100 assays (Mfr. No. Q33211)
Weight (English)	1.6 lb.
Display Type	Touch Screen
Memory	Instrument: 1000 samples, USB: 4GB
Format	500µL tubes
Analysis Time	≤5 sec./sample
Emission Filters	Green: 510-580nm, Red: 665-720nm
Lamp	Blue LED (max. ~470nm), Red LED (max. ~635nm)
Volume (Metric) Sample	1 to 20µL
Weight (Metric)	743g
Detector Type	Photodiodes, measurement capability from 300 to 1000nm
Dimensions (L x W x H)	10 × 5.4 × 2.2 in. (25 × 13.6 × 5.5cm)
Dynamic Range	Five orders of magnitude
Excitation Filters	Blue: 430-495nm, Red: 600-645nm

Qty 1: HIC 1320 – Centrifuge (Equal to LW Scientific #ZipCombo ZCC-12HD-40T3)

<https://www.lwscientific.com/products/zipcombo-centrifuge>

Description: Centrifuge

- Easily changeable rotors
- Small footprint to conserve space
- Results in as little as 3 minutes
- Applications: Blood, Urine, DNA Separation, HPLC Microfiltration
- Interchangeable rotors
- Digital LCD display of speed and time;
- lid open/close
- Clear lid for using tachometer
- Beep signals end of cycle
- Suction-cupped feet to prevent slipping
- Allen wrench included for changing rotors
- Variable speed: 1000-12000rpm in steps of 1000 rpmMaximum RCF=6900g
- Digital timer: 15 seconds-99 minutes or continuous mode
- 100-240V 50/60Hz auto-switching24 volt brushless DC motor
- ZipCombo Centrifuge with 12 place microhematocrit rotor
- Vial of 200 40mm capillary tubes
- Reader card

Qty 3: HIC 1389 – Assorted Lab Glassware & Equipment(Equal to Multiple Vendors)

<https://www.fishersci.com>

Description: Assorted Lab Glassware & Equipment

Assorted Lab package for 3 labs. Each package to include:

Vendor	Product #	Description	Qty.
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Histology supplies

Fisher	08-812-1A	slide staining dishes (set of 3)	1

Basic glassware and consumables

Fisher	08-572G	1L graduated cylinder Nalgene	1
Fisher		12x75 borosilicate tubes-heavy	1
Fisher		100ml media bottles (10/case)	1
Fisher		250ml media bottles (10/case)	1
Fisher		1L media bottles (10/case)	1
Thermofisher	300741	100ml polypropylene grad. cylinder	1
Thermofisher	300744	1000ml polypropylene grad cylinder	1
Thermofisher	S32139	grad cylinder starter kit (5)	1

Thermofisher	08550E	100ml glass grad. Cylinder	1
Thermofisher	08550G	500ml glass grad. Cylinder	1
Thermofisher	25552	beaker starter kit	1
Fisher	02-540G	50ml glass beakers (case of 48)	1
Thermofisher	14-959-49A	50ml conical tubes (500/case)	1
Thermofisher	14-809AA	test tube rack (13mm tubes)	1
Thermofisher	NC9232043	15ml tube rack	1
Thermofisher	03-448-17	tube holders (multi-size)	1

Fisher	W224604	Wheaton 20ml amber borosilicate vials with black phenolic caps (72/case)	1
USA Scientific	1111-0700	200ul pipette tips reloads	1
USA Scientific	1121-2510	10 ul filter tips Tip One starter kit	1
USA Scientific	1120-8510	200ul filtered pipette tips TipOne starter kit	1
USA Scientific	1120-8710	200ul filtered pipette tips TipOne reload sterile	1
USA Scientific	1071-0810	10ml serological pipettes	1
Fisher	S68228C	serological pipettes 5ml (50pk)	1
Fisher	S68228D	serological pipettes 10ml (50pk)	1
USA Scientific	2381-5048	81 place boxes multi-colors	1
USA Scientific	2305-5000	50 place boxes for 0.5ml tubes	1
USA Scientific	2350-0500	50 place boxes for 2ml tubes	1
USA Scientific	1605-0000	Seal-Rite® 0.5 ml microcentrifuge tubes 1000/pk	1
USA Scientific	1615-5500	Seal-Rite® 1.5 ml microcentrifuge tube, 500/bag	1
USA Scientific	1620-2700	Seal-Rite® 2.0 ml microcentrifuge tube, 500/bag	1
USA Scientific	1475-1611	15ml conical tubes (500)	1

Basic equipment

MidSci	AP4508-10	8-channel multipipette (1-10ul)	1
MidSci	MIDSCI 2	0.1-2ul single channel pipettor	1
MidSci	MIDSCI 20	2-20ul single channel pipettor	1
MidSci	MIDSCI 200	20-200ul single channel pipettor	1
Thermofisher	13201434	thermometer 0-100C metal	1
Thermofisher	13201303	thermometer 0-100C metal	1
Thermofisher	S47815	ring stand with 2 rings	1
Thermofisher	057691Q	ring stand clamp	1

Vendor	Catalog	Description	Qty.
		ice buckets	6
		microcentrifuge tube racks	6
		10 ml graduated cylinder borosilicate glass	12
		25 ml graduated cylinder borosilicate glass	12
		100 ml grad. Cylinder borosilicate glass	12
	10-349B	funnel-large plastic (set of 2)	3
	10-349A	funnel-small plastic Set of 6)	1
	10-346D	funnel-large glass (set of 12)	1
	10-372B	funnel-large glass (set of 6)	1
		125ml Erlenmyer flasks (case of 36)	1
		250 ml flasks (case of 24)	1
		500 ml flasks	24
		1L flasks	6
		2L flasks	6
		100ml beakers (set of 12)	1
		250ml beakers (set of 12)	1
		500-600ml beakers (set of 6)	4
		1L beakers (set of 6)	2
		2L beakers (set of 4)	2
		4L beakers	6
Wheaton	358204	micro tissue grinder set	1
Thermofisher	14-513-58	octagonal stir bars 1/2" x 5/16"	12
Thermofisher	15-513-61	octagonal stir bars 2" x 5/16"	12
Fisher	21-401-15	microspatula 12-pk	2
Fisher	14-375-20	spoonulet	24
Fisher	S68228C	serological pipettes 5ml (50pk)	24
Fisher	S68228D	serological pipettes 10ml (50pk)	24
Fisher	13-374-16	parafilm 5cm	3
Fisher	13-374-10	parafilm 10cm	3
Fisher	08-757-14G	petri dishes (case/500)	5
Fisher	13-711-9AM	transfer pipettes (500)	2
Fisher	14-206-30	Versidry (case of 2) 300ft rolls	1
Fisher	08-732-113	weigh boats 1" x 3.5" (case of 500)	1
Fisher	08-732-115	weigh boats 5.5 x 5.5 (case of 500)	1
USA Scientific	3487-0514	14-tooth comb 9x11 gel rig	12
USA Scientific	3487-0000	9x 11 gel rig with cables	6
Fisher	13-994-014	cryo gloves-large	2

Fisher	13-994-012	cryo gloves-medium	2
Fisher	11-394-299	autoclave gloves	6

Special Conditions to Proposers

QUESTIONS AND REQUESTS FOR INFORMATION

Information relative to this project obtained from other sources, including other university administration, faculty or staff may not be accurate, will not be considered binding and could adversely affect the potential for selection of your bid. All requests for information, questions or comments relative to this project should be directed, in writing to:

Ryan Straus
Bid Specialist, Procurement Services
Lucas Administrative Center, Suite 617
Northern Kentucky University
Highland Heights, KY 41099
Strausr2@nku.edu

GENERAL TERMS AND CONDITIONS TO PROPOSERS:

The general terms and conditions linked below shall be applicable to this Bid and take precedence over any Contractor terms and conditions:

<https://inside.nku.edu/procurement/policies/terms-and-conditions.html>

GOVERNING LAW:

Proposers shall conform to and observe all laws, ordinances, rules and regulations of the United States of America, Commonwealth of Kentucky, and all other local governments, public authorities, boards or offices relating to the Project Site or the improvements upon same, or the use thereof, and will not permit the same to be used for any illegal or immoral purposes, business or occupation. The resulting Contract shall be governed by Kentucky Law and any claim relating to this Contract shall only be brought in the Franklin Circuit Court in Accordance with KRS 45A-245.

TOBACCO FREE CAMPUS

Effective January 1st, 2014, NKU will be a tobacco free campus. The use of all tobacco products shall be prohibited in all campus buildings and outside areas on campus.

STATUTORY AUTHORITY

Selection of firms to provide professional services to Northern Kentucky University are governed by the provisions of the Kentucky Revised Statutes, KRS 45A.085, <http://www.lrc.ky.gov/KRS/045A00/085.PDF>

FOREIGN CORPORATIONS

Foreign corporations are defined as corporations that are organized under laws other than the laws of the commonwealth of Kentucky. Foreign corporations doing business within the commonwealth of Kentucky are required to be registered with the Secretary of State, New Capitol Building, Frankfort, Kentucky and must be in good standing.

The Foreign Corporate Proposer, if not registered with the Secretary of State at the time of the bid submittal, shall be required to become registered and be declared in good standing prior to the issuance or receipt of a contract.

DOMESTIC CORPORATIONS

Domestic corporations are required to be in good standing

BID BONDS:

A 5% bid bond is required with submission of this ITB.

COMPLETION DATES

It is understood and agreed that time is of the essence. The Contractor will efficiently, diligently, and expeditiously conduct the work in a manner that will satisfy compliance with approved project schedules and completion by the completion date appearing in the body of this bid.

EXAMINATION OF CONTRACT

Each vendor shall also thoroughly examine and become familiar with the specifications and associated contract documents. By submitting a bid, the vendor agrees that they have carefully examined the specifications and have thereupon decided that from their own investigation Contractor has satisfied themselves as to the nature and location of work, the general and local conditions and all matters which may in any way affect the work or its performance and that as a result of such examination and investigation, vendor fully understands the intent and purpose of the documents and conditions of the bidding. Claims for additional compensation and/or extension of time because of the vendor's failure to follow the foregoing procedure and to familiarize themselves with the Contract Documents and all conditions which might affect work will not be allowed.

FIELD VERIFICATION

It is the Vendor's responsibility to verify all measurements.

CANCELLATION

The resulting contract from this ITB may be cancelled by the University for non-compliance with the terms and conditions of any part of the agreement.

TERMINATION FOR CONVENIENCE

Northern Kentucky University reserves the right to terminate the resulting contract without cause with a 30-day written notice. Upon receipt by the Contractor of "notice of termination" the Contractor shall discontinue all services with respect to the applicable contract. The cost of any agreed upon services provided by the Contractor will be calculated at the agreed upon rate prior to "notice of termination" and a fixed fee contract will be pro-rated (as appropriate).

INSURANCE

If awarded, bidder / proposer must provide NKU with an insurance certificate listing NKU as a certificate holder and additionally insured.

**Northern Kentucky University
617 Lucas Administrative Center
1 Nunn Drive
Highland Heights, KY 41099**

The Contractor shall furnish the University the Certificates of Insurance and guarantee the maintenance of such coverage during the term of the contract. The Contractor shall provide an original policy endorsement of its CGL insurance naming Northern Kentucky University and the directors, officers, trustees, and employees of the University as additional insured on a primary and non-contributory basis as their interest appears. Additionally, the Contractor shall provide an original policy endorsement for Waiver of subrogation in favor of the Northern Kentucky University its directors, officers, trustees, and employees as additional insured.

Our basic insurance requirements are:

Workers' Compensation insurance with Kentucky's statutory limits and Employers' Liability insurance with at least \$100,000 limits of liability.

Comprehensive General Liability (CGL) Insurance the limits of liability shall not be less than \$500,000 each occurrence for bodily injury and \$250,000 property damage.

Comprehensive Automobile Liability Insurance: To cover all owned, hired, leased or non-owned vehicles used on the Project. Coverage shall be for all vehicles including off the road tractors, cranes and rigging equipment and include pollution liability from vehicle upset or overturn. Policy limits shall not be less than \$500,000 for bodily injury and \$100,000 for property damage.

Excess liability insurance in an umbrella form for excess coverages shall have a minimum of \$1,000,000 combined single limits for bodily injury and property damage for each.

REFERENCES

Bidder Qualifications: The bidder is required to submit a list of completed projects where he has performed similar work to that specified herein.

Organization: _____
Contact Name: _____
Phone Number: _____
Date Work Completed: _____ **Value of Contract:** _____
Project Manager assigned to this project: _____
Brief Project Description: _____

Organization: _____
Contact Name: _____
Phone Number: _____
Date Work Completed: _____ **Value of Contract:** _____
Project Manager assigned to this project: _____
Brief Project Description: _____

Organization: _____
Contact Name: _____
Phone Number: _____
Date Work Completed: _____ **Value of Contract:** _____
Project Manager assigned to this project: _____
Brief Project Description: _____

Bid Bond

5% of Contract Price

KNOW ALL MEN BY THESE PRESENTS, that we _____ (here insert full name and address or legal title of Contractor)
as Principal, hereinafter called the Principal, and _____ (here insert full name and address or legal title of Surety)
a corporation duly organized under the laws of the State of Kentucky as Surety, hereinafter called
Surety, are held and firmly bound unto **Northern Kentucky University** as Obligee, hereinafter
called Obligee, in the sum of : _____ Dollars (\$ _____),
representing 5% of the Principal's total bid price and for the payment of which sum well and truly
to be made, the said Principal and the said Surety, bind ourselves, our heirs, executors,
administrators, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS, the Principal has submitted a bid for _____ (Here insert full name, address and description of project)
NOW THEREFORE, if the Obligee shall accept the bid of the Principal within the period specified, or if no period is
specified, within 45 days after its opening, and the Principal shall enter into a Contract with the Obligee in accordance
with the terms of such bid, and give such bid or bonds as may be specified in the bidding or Contract Documents
with good and sufficient surety for the faithful performance of such Contract and for the prompt payment of labor
and material furnished in the prosecution thereof, or in the event of the failure of the Principal to enter such Contract
and give such bonds or bonds, if the Principal shall pay to the Obligee the difference not to exceed the penalty hereof
between the amount specified in said bid and such larger amount for which the Obligee may in good faith contract
with another party to perform the Work covered by said bid, then this obligation shall be null and void, otherwise to
remain in full force and effect.

Signed and sealed this day of _____ 2018

(Principal) (Seal)

(Witness)

(Title)

(Surety) (Seal)

(Witness)

(Title)

THIS DOCUMENT MUST BE NOTORIZED

This is only an example. Other forms may be used.

FORM OF PROPOSAL

BID

The Bidder agrees to furnish all materials, supplies, and services required to perform this contract in a professional manner. These services to be provided in accordance with Specifications and Contract Documents, and any duly issued Addenda for the **BID** set forth below:

Item #	Item Description	Qty	Price Per	Extended Price
Equal to Gilson #F167300	Pipetting Package (one set per bench + instructor = 7 sets) P20, P200, P1000	26		
Equal to Leica #CM1860	Cryostat	1		
Equal to Fisher Scientific Justrite # 892300	Fixed Flammable cabinet	8		
Equal to Fisher Scientific # 11670250	Glass sliding door refrigerator	2		
Equal to Cole Parmer #VV-17414-21	Table top centrifuge	4		
Equal to ThermoScientific #Sorvall Legend XTR	centrifuge for microcentrifuge tubes + add'l rotors	3		
Equal to Uline Ohaus #H-2715	Table top gram scale	7		
Equal to Fisher Scientific Accumet 3 in 1 Bench Set #13636AE153	pH Meter	4		
Equal Uline Ohaus #H-5276	Analytical Balance	7		
Equal to Fisher Scientific Sonoco #03-525-2	Dry ice freezer container	3		
Equal to Uline Ohaus #H-2716	Tabletop Milligram Scale	6		
Equal to Fisher Scientific #191305459	Freezer Mitts for -80 freezer	8		
Equal to Fisher Scientific MJ Research #PT-200	Table top thermocycler	3		
Equal to Healthcare Logistics Inc #3886	Cabinet for controlled substance storage	2		
Equal to Thermofisher Scientific #4366604	real-time qPCR thermocycler + computer	1		

Item #	Item Description	Qty	Price Per	Extended Price
Equal to ThermoScientific #Sorvall Legend XTR	refrigerated centrifuge for 15ml tubes	1		
Equal to Molecular Devices #Spectramax 190	microplate reader + computer	1		
Equal to ThermoScientific #CK50920	Floor Model liquid N2 Container	1		
Equal to Millipore Sigma # ZEXQ003WW	MilliQ Water purification system	1		
Equal to Labnet International Enduro#GDS-1302	gel imaging system + computer	1		
Equal to ThermoScientific #Nanodrop 2000LAPTOP	Nanodrop + computer	1		
Equal to Fisher Scientific #S28124	Water Bath - similar to Precision Water Bath Model 183	1		
Equal to Leica Biosystems #VT-1200S	Vibratome	1		
Equal to Fisher Scientific #191302486	First Aid Kit	4		
Equal to Fisher Scientific # S47567A	Fire Blanket	3		
Equal to Fisher Scientific #S41263	Glass Disposal Container - Lab	8		
Equal to Fisher Scientific #S93954	Eyewash	9		
Equal to Fisher Scientific #F161405	Pipette Racks	26		
Equal to ULine – #H3810	Disposable Mask Holder	7		
Equal to US Plastics Corp. #73087	"Car Boys" for MilliQ Water Storage	3		
Equal to Fisher Scientific. #S98630	Gel-rigs-electrophoresis power supply	1		
Equal to Fisher Scientific Countess II #AMQAX1000	Automated cell counter + computer (Fisher Countess)	1		
Equal to ThermoFisher #Q33217	Qubit DNA analyzer	1		

Item #	Item Description	Qty	Price Per	Extended Price
Equal to LW Scientific #ZipCombo ZCC-12HD-40T3	Centrifuge, ZipCombo	1		
Equal to Multiple Vendors)	Assorted Lab Glassware and equipment	3		

Total Extended Price:

_____ Dollars _____ Cents
(USE WORDS) (USE WORDS)

\$ _____
(USE NUMBERS)

This offer is for, at minimum, _____ calendar days from the date this offer is opened. In submitting the above it is expressly agreed that upon proper acceptance by Northern Kentucky University of any or all items offered, a contract shall thereby be created with respect to the items accepted.

THIS BID SUBMITTED BY:

(Name and Address of Bidder)

DATE: _____ AUTHORIZED SIGNATURE: _____

The Bidder, hereby acknowledges receipt of the following Addenda:

ADDENDUM NO. _____ DATED _____ ADDENDUM NO. _____ DATE _____

ADDENDUM NO. _____ DATED _____ ADDENDUM NO. _____ DATE _____

NOTE: *The Authentication of Bid and Statement of Non-Collusion and Non-Conflict of Interest must be properly executed for this Bid to be valid.*

This Bidder, in compliance with this Request for Bid, and having carefully examined the complete contract documents, as well as the specifications for the work as prepared by Northern Kentucky University, hereby proposes to furnish all labor, supervision, materials, supplies and services required to perform the specifics of the Contract Documents, within the time set forth herein and for the final negotiated price.