MIDSCI™
Laboratory Equipment & Supplies

New Lab Start Up Guide

In this guide, we will provide an easy checklist to help you get what you want.
Please fill this out, save it and then email to tech@midsci.com.
Within a short period we can have a quote and available promos back to you.

- Contact Name: _____
- Phone Number: _____
- Email: _____

- Purchasing contact name: *(If different from above)* _____
- Phone Number: _____
- Email: _____

- Institution/Company: _____
- Mailing Address: _____
- Building and Room #: _____

Large Enough to Deliver, Small Enough to Care

v 03.2026

Welcome to our New Lab Start-Up guide!

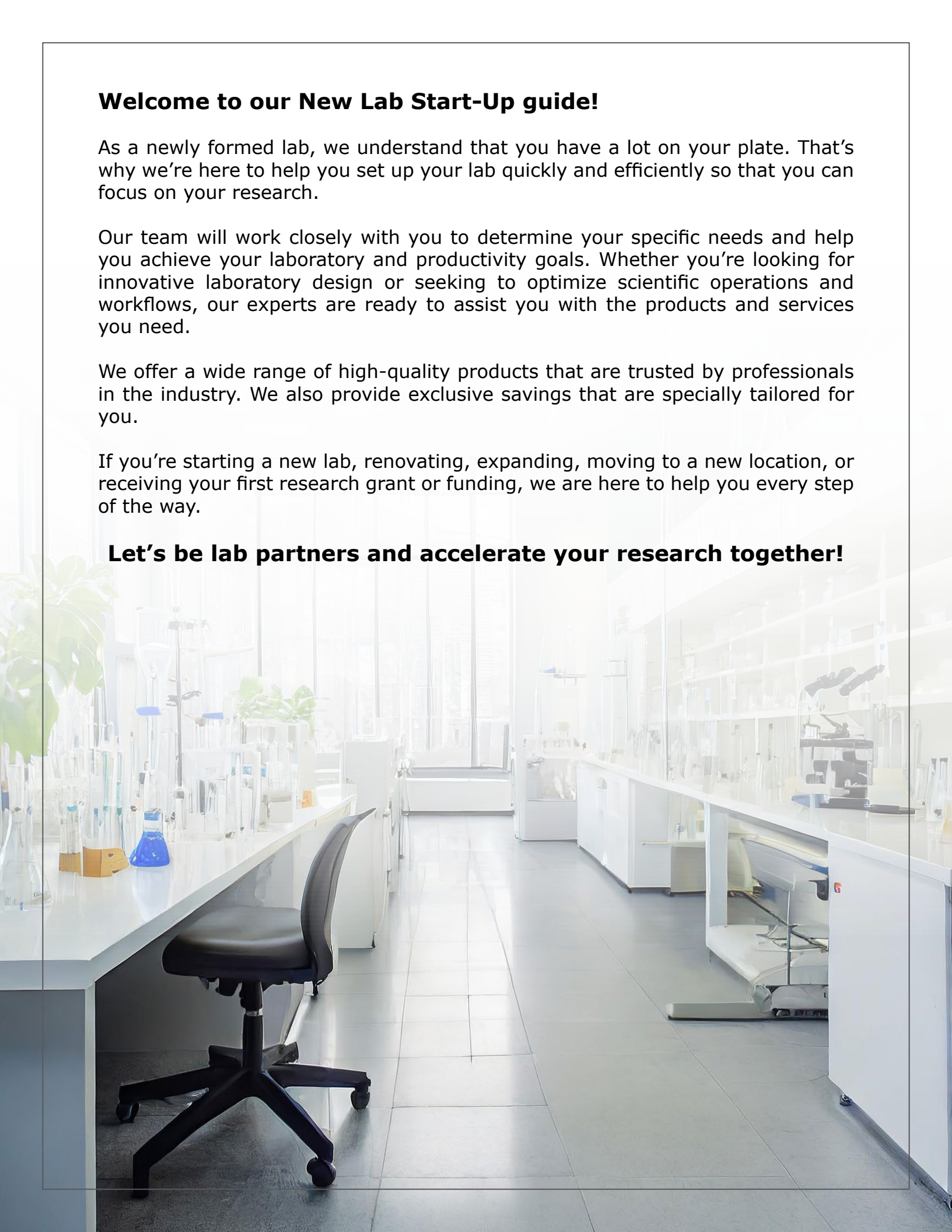
As a newly formed lab, we understand that you have a lot on your plate. That's why we're here to help you set up your lab quickly and efficiently so that you can focus on your research.

Our team will work closely with you to determine your specific needs and help you achieve your laboratory and productivity goals. Whether you're looking for innovative laboratory design or seeking to optimize scientific operations and workflows, our experts are ready to assist you with the products and services you need.

We offer a wide range of high-quality products that are trusted by professionals in the industry. We also provide exclusive savings that are specially tailored for you.

If you're starting a new lab, renovating, expanding, moving to a new location, or receiving your first research grant or funding, we are here to help you every step of the way.

Let's be lab partners and accelerate your research together!



Autoclaves & Sterilization

check all that apply

How large of an autoclave do you need?

- ☐ Benchtop (one at a time) for small things like scalps and forceps
- ☐ Benchtop and small for things like scalps and forceps
- ☐ 8 L Steam
- ☐ 16 L Steam
- ☐ 28 L Steam
- ☐ > 28 L, please specify. _____

Do you want to have printing capabilities?

- ☐ Yes
- ☐ No

Balances

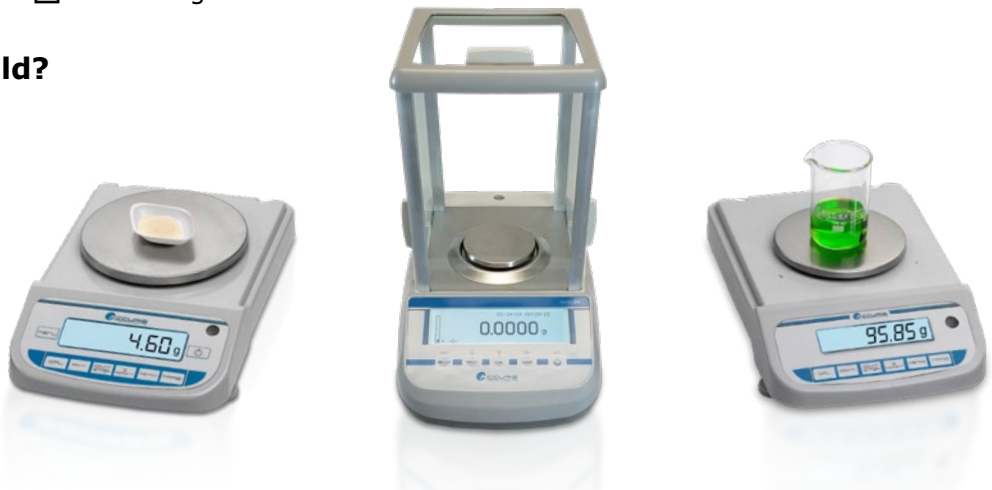
check all that apply

What is the minimun value that the balance needs to displays and the maximum capacity?

Minimum Value	Max Capacity			
☐ 0.1 g	☐ 0 to 500 g	☐ 0 to 1200 g	☐ 0 to 3200 g	☐ 0 to 5000 g
☐ 0.01 g	☐ 0 to 100 g	☐ 0 to 300 g	☐ 0 to 500 g	☐ 0 to 1200 g
☐ 0.001 g	☐ 0 to 120 g	☐ 0 to 320 g	☐ 0 to 500 g	
☐ 0.0001 g	☐ 0 to 120 g	☐ 0 to 220 g		
☐ 0.00001 g	☐ 0 to 62 g			

Do you need a shield?

- ☐ Yes
- ☐ No



Baths (Dry)

check all that apply

What are you heating and how many?

Volume/Kind of Vessel	Max # of Vessels to Run at One Time		
☐ 0.2 mL	☐ 1 to 24	☐ 25 to 96	
☐ 0.5 mL	☐ 1 to 24	☐ > 24	
☐ 1.5 mL	☐ 1 to 15	☐ 16 to 32	☐ > 32
☐ 2 mL	☐ 1 to 15	☐ 16 to 32	☐ > 32
☐ 5 mL	☐ 1 to 10	☐ 11 to 20	☐ > 20
☐ 15 mL	☐ 1 to 4	☐ 5 to 10	☐ > 10
☐ 50 mL	☐ 1 to 2	☐ 2 to 4	☐ > 4
☐ Culture Tubes	☐ 1 to 15	☐ 16 to 32	☐ > 32
☐ Slides	☐ 1	☐ 2	☐ > 3
☐ PCR Plates	☐ 1	☐ 2	☐ > 3
☐ Microtiter plate	☐ 1	☐ 2	☐ > 3

Do you prefer a specific brand? Please specify.

Baths (Water)

check all that apply

How many liters do you want the bath to hold?

☐ 2 L ☐ 8 L ☐ 16 L ☐ > 16 L
☐ 4 L ☐ 12 L ☐ 10 L

What kind of water bath do you need?

☐ No Motion ☐ Shaking ☐ Circulating

Biochemicals

check all that apply

What Biochemicals will you need?

☐ Antibiotics
☐ Biological Buffers
☐ Enzyme Substrates
☐ Dehydrated Culture Media
☐ Biochemical Reagents

Cell Counter

check all that apply

Will you require a cell counter?

☐ Yes ☐ No

If yes, check one:

☐ Automated ☐ Hemocytometer

Cell Imager (live cell)

check all that apply

Will you do live cell imaging?

☐ Yes ☐ No

Would you prefer a microscope or system inside the incubator?

☐ In incubator ☐ Microscope

Centrifuges (Mini)

check all that apply

What kind of tubes and how many?

Volume/Kind of Vessel	Max # of Vessels to Run at One Time		Number of units needed?
☐ Microtubes	☐ < 8	☐ > 8	☐ 1 to 3
☐ PCR Tubes	☐ < 16	☐ > 16	☐ 4 to 6
☐ PCR Plates	☐ 1	☐ > 2	☐ > 6
☐ Plates (other)	☐ 1	☐ > 2	

Centrifuges (Micro)

check all that apply

Temperature?

☐ Ambient
☐ Refrigerated

Max number of tubes at one time?

☐ 5 to 10
☐ 18
☐ 24
☐ 44

Max speed?

☐ < 16,000 xg
☐ > 16,000 xg

Centrifuge (MidSize)

check all that apply

What kind of tubes and how many?

Volume/Kind of Vessel	Max # of Vessels to Run at One Time			
☐ 0.5 to 5 mL	☐ 12	☐ 24	☐ 44	☐ > 44
☐ 15 mL	☐ < 12	☐ 13-20	☐ 21-40	☐ > 40
☐ 50 mL	☐ < 4	☐ 5-15	☐ 16-20	☐ > 20
☐ 100 mL	☐ 2	☐ 4	☐ > 4	
☐ 250 mL	☐ 2	☐ 4	☐ > 4	
☐ 500 mL	☐ 2	☐ 4	☐ > 4	
☐ Culture Tubes	☐ < 12	☐ 13-20	☐ 21-40	☐ > 40
☐ Blood Tubes	☐ < 12	☐ 13-20	☐ 21-40	☐ > 40
☐ Plates	☐ 2	☐ 4	☐ > 4	

Style of rotor

☐ Fixed angle ☐ Swing out bucket

Please note that the rotor will dictate the max speed for the centrifuge. That information can be found on our website or we can provide it?

Do you want the max speed listed on the quote for each rotor we recommend?

☐ Yes ☐ No

Temperature? ☐ Ambient ☐ Refrigerated

Desk Chairs

check all that apply

Desk Chairs? ☐ Yes ☐ No

How many? ☐ 1-5 ☐ 5-10 ☐ >10

Bench/Task Chairs? ☐ Yes ☐ No

How many? ☐ 1-5 ☐ 5-10 ☐ >10

Cryo Storage

check all that apply

What is the maximum # of 2 mL tubes you will store at one time?

- ☐ 0 to 180
- ☐ 0 to 750
- ☐ 0 to 3000
- ☐ 0 to 6000
- ☐ 10K
- ☐ 24K
- ☐ 30K
- ☐ 48K
- ☐ > 48K

Storing something besides 2 mL tubes?

- ☐ Blood Bags
- ☐ Other size tubes
- ☐ Straws
- ☐ Other

What accessories will you need?

- ☐ Roller base
- ☐ Liquid withdrawal device
- ☐ Gloves
- ☐ Measure device
- ☐ Alarm

Electrophoresis

check all that apply

Horizontal?

☐ Yes ☐ No

Number of wells?

- ☐ 5 to 10 wells
- ☐ 10 to 20 wells
- ☐ > 20 wells

Vertical?

☐ Precast ☐ Cast your own

Number of wells?

- ☐ 5 to 10 wells
- ☐ 10 to 20 wells
- ☐ > 20 wells

☐ **Do you prefer something specific? Please specify.**

Electrophoresis Power Supplies

check all that apply

General purpose DNA gels? ☐ Yes ☐ No

Number of leads ☐ 2 ☐ 4 ☐ More

General purpose Protein gels? ☐ Yes ☐ No

Number of leads ☐ 2 ☐ 4 ☐ More

Freezers (all manual defrost)

check all that apply

How low do you need the temperature to go and what size do you need?

☐ -20°C	☐ 5 cuft	☐ 10-20 cuft	☐ 20+ cuft	☐ Chest	☐ Vertical
☐ -25°C	☐ 5 cuft	☐ 10-20 cuft	☐ 20+ cuft	☐ Chest	☐ Vertical
☐ -40°C	☐ 5 cuft	☐ 10-20 cuft	☐ 20+ cuft	☐ Chest	☐ Vertical
☐ -80°C	☐ 1-10 cuft	☐ 10-20 cuft	☐ 20+ cuft	☐ Chest	☐ Vertical

Do you need explosion or flame-proof? ☐ Yes ☐ No

Please rank these as priorities (1 is greatest priority, 4 is least).

☐ Performance ☐ Cost ☐ Storage capacity ☐ Energy saving

Gel Doc Systems

check all that apply

DNA ☐ UV ☐ White Light

Protein ☐ Chemilumnensence ☐ Flourescent

Estimate # of users? ☐ 1-5 ☐ 6-10 ☐ > 10

Homogenizer

check all that apply

What size tubes and how many at one time?

Volume/Kind of Vessel	Max # of Vessels to Run at One Time			
☐ Microtubes	☐ One at a time	☐ 1 to 3	☐ 4 to 24	☐ > 24
☐ 5 mL	☐ One at a time	☐ 2 to 12	☐ > 12	
☐ 15 mL	☐ One at a time	☐ 1 to 3	☐ 4 to 24	☐ > 24
☐ 50 mL	☐ One at a time	☐ 2 to 8	☐ 4 to 24	☐ > 24
☐ Culture Tubes	☐ One at a time			

Handheld or multiple tube use? ☐ Handheld ☐ Multiple tubes at once

Temp required? ☐ Ambient ☐ Chilled

Hoods

check all that apply

What kind of hood do you need and what size is the work area?

Style of Hood	Size of Work Area			
☐ Biosafety Cabinet for Cell Culture	☐ 2 ft	☐ 4 ft	☐ 6 ft	☐ > 6 ft
☐ Fume Hood	☐ 2 ft	☐ 4 ft	☐ 6 ft	☐ > 6 ft
☐ PCR Workstation	☐ 2 ft	☐ 4 ft	☐ 6 ft	☐ > 6 ft
☐ Other	☐ 2 ft	☐ 4 ft	☐ 6 ft	☐ > 6 ft

Will your hood sit on the bench or do you want a stand?

☐ Bench ☐ Stand

Hotplates, Stirrers and Hotplate

check all that apply

What do you need and what size is the platform?

☐ Hotplate	☐ 7 x 7″	☐ Larger
☐ Stirrer	☐ 7 x 7″	☐ Larger
☐ Hotplate Sirrer	☐ 7 x 7″	☐ Larger

☐ **Do you prefer something specific? Please specify.**

_____

Incubators (general purpose)

check all that apply

What is the size and the temperature range?

Size of Storage Chamber	Temperature Max		
☐ < 1 cuft	☐ < 70°C	☐ < 100°C	☐ > 100°C
☐ < 5 cuft	☐ < 70°C	☐ < 100°C	☐ > 100°C
☐ < 10 cuft	☐ < 70°C	☐ < 100°C	☐ > 100°C
☐ < 20 cuft	☐ < 70°C	☐ < 100°C	☐ > 100°C
☐ < 30 cuft	☐ < 70°C	☐ < 100°C	☐ > 100°C
☐ > 30 cuft	☐ < 70°C	☐ < 100°C	☐ > 100°C

Incubator (drosophila)

☐ Yes

Incubator (CO_2)

check all that apply

What size and kind do you need?

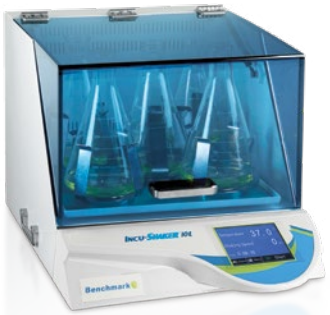
# of units needed	Stacked	Air Jacked	Water Jacked	Decontamination Mode
3 cuft _____	☐	☐	☐	☐
5 - 6 cuft _____	☐	☐	☐	☐
> 6 cuft _____	☐	☐	☐	☐

Incubated Shakers

check all that apply

CO_2 Compatible? ☐ Yes ☐ No

Incubated Shaker for bacterial or fungal growth? ☐ Yes ☐ No



What vessels will you shake & the number of each?

Volume/Kind of Vessel	Max # of Vessels to Run at One Time		
☐ 1.5 mL tube rack	☐ 1 to 10	☐ 11 to 20	☐ > 20
☐ 15 mL tube rack	☐ 1 to 20	☐ 21 to 49	☐ > 50
☐ 50 mL tube rack	☐ 1 to 5	☐ 6 to 20	☐ > 20
☐ 250 mL tubes	☐ 1 to 5	☐ 6 to 10	☐ > 10
☐ 500 mL tubes	☐ 1	☐ 2 or 3	☐ > 4
☐ Plates	☐ 1	☐ 2 or 3	☐ > 4
☐ 50 mL Erlenmeyer	☐ 1 to 10	☐ 11 to 20	☐ > 20
☐ 125 mL Erlenmeyer	☐ 1 to 10	☐ 11 to 20	☐ > 20
☐ 250 mL Erlenmeyer	☐ 1 to 10	☐ 11 to 20	☐ > 20
☐ 500 mL Erlenmeyer	☐ 1 to 5	☐ 6 to 15	☐ > 16
☐ 1 L Erlenmeyer	☐ 1 or 2	☐ 3 to 5	☐ > 5
☐ 2 L Erlenmeyer	☐ 1 or 2	☐ 3 to 5	☐ > 5

Microplate Reader

check all that apply

Absorbace	☐ Yes	☐ No
Luminesense	☐ Yes	☐ No
Flouresence	☐ Yes	☐ No

☐ **Do you prefer something specific? Please specify.**

_____

Microplate Washer

check all that apply

Wash bottles

- ☐ 1
- ☐ 2
- ☐ 3
- ☐ >3

Wash whole plate

- ☐ Yes
- ☐ No

Wash by individual rows

- ☐ Yes
- ☐ No

Microscopes

check all that apply

What will be the main use of the scope you are needing?

	Upright	Stereo	Inverted	Confocal
Cell Culture	☐	☐	☐	☐
Dissection	☐	☐	☐	☐
Slides	☐	☐	☐	☐
Other	☐	☐	☐	☐

Ovens

check all that apply

What size and kind do you need?

Temperature Range Needed

	Temp: 10 to 230°C	Temp: 231 to 300°C	Temp: > 300°C
< 1 cuft	☐	☐	☐
< 2 cuft	☐	☐	☐
< 5 cuft	☐	☐	☐
> 5 cuft	☐	☐	☐

Kind of Oven

Mechanical	Natural convection	Vacuum	Hybridization
☐	☐	☐	☐
☐	☐	☐	☐
☐	☐	☐	☐
☐	☐	☐	☐

Thermal Cyclers & qPCR Machines

check all that apply

PCR and/or qPCR & # of samples run at one time?

	# of samples: 24 or fewer	96	384
PCR	☐	☐	☐
qPCR	☐	☐	☐

If PCR, do you need Gradient? ☐ Yes ☐ No

pH Meter

check all that apply

How will you use the pH meter?

☐ Field work ☐ Molecular Benchtop ☐ Other _____

Pipettors

check all that apply

Single Channel	2 µL	10 µL	20 µL	100 µL	200 µL	1000 µL	5000 µL
Manual	☐	☐	☐	☐	☐	☐	☐
Electronic	☐	☐	☐	☐	☐	☐	☐

8 Channel	10 µL	20 µL	50 µL	200 µL	300 µL
Manual	☐	☐	☐	☐	☐
Electronic	☐	☐	☐	☐	☐

12 Channel	10 µL	20 µL	50 µL	200 µL	300 µL
Manual	☐	☐	☐	☐	☐
Electronic	☐	☐	☐	☐	☐

384 well pipettor	10 µL	50 µL
16 channel	☐	☐
64 channel	☐	☐

Pipet Controller

check all that apply

How long do you want the handheld?

☐ Standard Length ☐ Long Neck

Do you want a standard unit or a unit that can aliquote volumes?

☐ Standard Variable Speed ☐ Controlled aliquoting capability

Pipettors (Repeat)

☐ Yes ☐ No

Refrigerator

check all that apply

What kind and size do you need?

	23 cuft	33 cuft	47 cuft	49 cuft	69 cuft
Glass door standard	☐	☐	☐	☐	☐
Glass door chromatography	☐	☐	☐	☐	☐

Sliding or swing door? ☐ Sliding ☐ Swing

Solid door ☐ 5 cuft ☐ 10-20 cuft ☐ more than 20 cuft

☐ Explosion or Flame-Proof

Rockers

check all that apply

What kind do you need, size of platform and # of stacked platforms?

	2D (like a rocking chair)	3D (undulating)	Nutator
1 platform	☐	☐	☐
2 stacked platforms	☐	☐	☐
3 or more stacked platforms	☐	☐	☐
12 x 12” platforms	☐	☐	☐
Larger platforms	☐	☐	☐

Rotator

check all that apply

What kind and features do you need?

Incubated? ☐ Fixed speed ☐ Variable speed **Programmable?** ☐ Fixed speed ☐ Variable speed

What vessels will you rotate & the number of each?

Volume/Kind of Vessel	Max # of Vessels to Run at One Time		
☐ 1.5 mL tube rack	☐ 1 to 10	☐ 11 to 20	☐ > 20
☐ 15 mL tube rack	☐ 1 to 20	☐ 21 to 49	☐ > 50
☐ 50 mL tube rack	☐ 1 to 5	☐ 6 to 20	☐ > 20
☐ Culture Tubes	☐ 1 to 20	☐ 21 to 49	☐ > 50
☐ Roller bottles	☐ 1 to 5	☐ 6 to 10	☐ > 10
☐ Plates	☐ 1	☐ 2 or 3	☐ > 4

Shaker

check all that apply

What speed to you need? ☐ 0 - 100 rpm ☐ 101 - 300 rpm ☐ 301+ rpm

If you are looking for a temperature control shaker see "Incubated Shakers"

CO_2 compatible? ☐ Yes ☐ No

What size of platform do you need? ☐ 12x12" ☐ Larger

What vessels will you shake & the number of each?

Volume/Kind of Vessel	Max # of Vessels to Run at One Time		
☐ Non-skid general purpose platform			
☐ 1.5 mL tube rack	☐ 1 to 10	☐ 11 to 20	☐ > 20
☐ 15 mL tube rack	☐ 1 to 20	☐ 21 to 49	☐ > 50
☐ 50 mL tube rack	☐ 1 to 5	☐ 6 to 20	☐ > 20
☐ 250 mL tubes	☐ 1 to 5	☐ 6 to 10	☐ > 10
☐ 500 mL tubes	☐ 1	☐ 2 or 3	☐ > 4
☐ Plates	☐ 1	☐ 2 or 3	☐ > 4
☐ 50 mL Erlenmeyer	☐ 1 to 10	☐ 11 to 20	☐ > 20
☐ 125 mL Erlenmeyer	☐ 1 to 10	☐ 11 to 20	☐ > 20
☐ 250 mL Erlenmeyer	☐ 1 to 10	☐ 11 to 20	☐ > 20
☐ 500 mL Erlenmeyer	☐ 1 to 5	☐ 6 to 15	☐ > 16
☐ 1 L Erlenmeyer	☐ 1 or 2	☐ 3 to 5	☐ > 5
☐ 2 L Erlenmeyer	☐ 1 or 2	☐ 3 to 5	☐ > 5

Sonicator

check all that apply

☐ **Bath & Probe** ☐ **Just Probe**

Spectrophotometers

check all that apply

	Cuvette	Nano	Both
Single Sample	☐	☐	☐
Multiple Samples	☐	☐	☐
UV-Vis	☐	☐	☐
Wavelength	☐	☐	☐

What wavelength will you need?

☐ 200 - 1,000 nm
☐ 100 - 1200 nm
☐ 400 - 1,000 nm
☐ Other

Check all the processes that you will be testing for?

☐ Nucleic Acid ☐ Kinetics
☐ Protein UV ☐ OD600
☐ Protein Assay ☐ Other Methods

Transilliuminators

check all that apply

What is light source and the wavelength you need?

	254 nm	302 nm	365 nm
UV	☐	☐	☐
White Light	☐	☐	☐

What is the needed viewing surface size?

☐ ~15 x 15 cm ☐ ~25 x 25 cm ☐ ~30 x 40 cm

Vortexer

check all that apply

What vessels will be vortexed & how many of each?

Volume/Kind of Vessel	Max # of Vessels to Run at One Time		
☐ 1.5 mL tube rack	☐ 1	☐ 2 to 10	☐ > 10
☐ 15 mL tube rack	☐ 1	☐ 2 to 10	☐ > 10
☐ 50 mL tube rack	☐ 1	☐ 2 to 10	☐ > 10
☐ Plates	☐ 1	☐ 2 to 4	☐ > 4

Fixed or variable speed? ☐ Fixed ☐ Variable

Do you want it heated, heated & cooled, or no temp control?

☐ Heated ☐ Heated & cooled ☐ No temp control

Water Purification

check all that apply

What is your feedwater source?

☐ RO/DI ☐ City Tap water

What quality of water do you require?

☐ Type 1 (18.2MΩ) ☐ Type 2 (> 1 MΩ) ☐ Type 3 (RO)

How much water is used per day?

☐ < 10 liters ☐ > 10 liters

Do you require RNase/DNase/pyrogen free water?

☐ Yes ☐ No

MIDSCI™
Laboratory Equipment & Supplies

ROCKERS
OVENS
WATER PURIFICATION
MICROSCOPES
RESEARCHERS
NEUROSCIENCE

CRYO STORAGE
BIO CHEMICALS
PIPET CONTROLLER
INCUBATED SHAKERS
Spectrophotometers
MICROPLATE WASHER
LAB SCIENTIFIC

EXPERIMENTAL
REFRIGERATOR PIPETTORS
INCUBATOR

LABORATORY

UNIVERSITY
MICROBIOLOGY
BEAKER CHEMIST
MEASUREMENT
CHEM LAB BIOLOGY
FREEZERS
GEL DOC SYSTEMS

SCIENCE EXPERIMENT
PHYSICS
VORTEX MIXER
SHAKER
HOODS
BALANCES

RESEARCH
INSTITUTE
SAMPLES STUDY
WORKSHOP
HOTPLATES
STIRRERS

TRANSILLUMINATORS
THERMAL CYCLERS & QPCR MACHINES
MICROPLATE READER
HOMOGENIZER

EXPERIMENTS
SCIENTISTS
EQUIPMENT
CENTRIFUGE
WATER BATH

midsci.com • custserv@midsci.com • 800.227.9997 • f: 636.225.9998