

INVITATION TO BID		LSU	BID DUE DATE AND TIME	
BOARD OF SUPERVISORS OF LOUISIANA STATE UNIVERSITY AND AGRICULTURAL & MECHANICAL COLLEGE			10/16/2025 11:00 AM CT	
SOLICITATION RFQ-0000002633 SUPPLIER # SUPPLIER NAME AND ADDRESS 			RETURN BID TO lsubids@lsu.edu Buyer Amy Hill Bourgeois Buyer Phone Buyer Email ahill5@lsu.edu Issue Date 10/03/2025	
TITLE: Algae Bioreactors				
To Be Completed By Supplier _____ "No Bid" (sign and return this page only). _____ My Company does not wish to receive future solicitations for this spend category. - Specify your Delivery: To be made within _____ days after receipt of order. - If applicable, Supplier's Addendum Acknowledgement/Response: As an authorized agent/signatory of the supplier, I/we acknowledge receipt of this Addendum, and _____ submit no alterations/clarifications to our original bid. _____ submit superseding revisions/clarifications to our original bid as written herein or attached hereto. General Instructions to Suppliers - Sealed bids for furnishing the items and/or services specified are hereby solicited, and will be received by LSU Procurement at the "Return Bid To" address stated above, until the specified due date and time. - Read the entire solicitation, including all terms, conditions and specifications. - All bid information and prices must be typed or written in ink. Any corrections, erasures or other forms of alteration to unit price are to be initialed by the supplier. - Bid prices are to be quoted FOB LSU/Destination and inclusive of any and all applicable shipping and handling charges unless otherwise specified in the solicitation. Any invoiced delivery charges not quoted and itemized on the LSU purchase order are subject to rejection and non-payment. - Payment is to be made within 30 days after receipt of properly executed invoice, or delivery and acceptance, whichever is later. - By signing this solicitation, the supplier certifies compliance with all general instructions to suppliers, terms, conditions and specifications; and further certifies that this bid is made without collusion or fraud.				
SUPPLIER NAME			MAILING ADDRESS	
AUTHORIZED SIGNATURE			CITY, STATE ZIP	
PRINTED NAME			PHONE #	
TITLE			FAX #	
E-MAIL			FEDERAL TAX ID #	

SPECIAL TERMS & CONDITIONS		INVITATION TO BID	Page 2
SOLICITATION RFQ-0000002633		DUE DATE 10/16/2025	DUE TIME 11:00:00 AM
<u>Bid Submission Information</u> All bids must be submitted electronically to LSU Procurement Services. Bids must be received at the "Return Bid To" email address no later than the due date and time specified herein. Bids must be emailed to lsubids@lsu.edu (This email address should be used for bid submissions only). Any bids sent directly to the Buyer of record will not be forwarded to the "Return Bid To" email. When submitting electronically, the RFQ number and solicitation title should be listed in the subject line of the email. An original and redacted copy (if applicable) must be submitted electronically. Hard copies of bids will not be accepted; therefore, they will not be evaluated. It is the responsibility of the Supplier to ensure the bid is received by LSU Procurement by the indicated due date and time. Any delays that may occur in transmission of the bid is the responsibility of the supplier. A bid will be considered late if it is not received at the "Return Bid To" email address by the indicated due date and time. The maximum email attachment size accepted is 125 MB. It is the supplier's responsibility to ensure bid submission is sized such that it is successfully transmitted and received by LSU. If the bid response is too large to be emailed as one document, the bid must be sent as separate documents. Each submittal should be labeled. (Example – Bid Submittal 1 out of 3 for RFQ-000000XXXX - Title; Bid Submittal 2 out of 3 for RFQ-000000XXXX - Title, etc.). If any submittal is received late, LSU will not consider the late submittal(s). Only the submittal(s) received by the due date and time will be considered. Late bids will not be accepted per LAC 34:XIII.515.B. <u>Bid Opening Information</u> Bid openings are held electronically. There are no in-person bid openings. To electronically attend the bid opening, use the below link to register in advance: https://lsu.zoom.us/meeting/register/tJwvcuyggTltHtZZWmWrGBCjXxstyfiETx33 After registering, a confirmation email will be provided containing information about joining the bid opening. No information or opinions concerning the ultimate contract award will be given at bid opening or during the evaluation process. If an unforeseen circumstance beyond LSU's control prevents bid opening, the Bid will open at the next scheduled bid opening date. <u>Additional Information</u> ALL-OR-NONE-AWARD: It is the intent of the University to award all items on an all-or-none basis to the overall lowest responsive and responsible bidder. Bid prices for shipping are to be quoted FOB LSU/DESTINATION and inclusive of any and all applicable shipping and handling charges. LSU is a member of the National Association of Educational Procurement (NAEP) and the E&I Cooperative Purchasing Service. A preference, if applicable, may be allowed for products produced, manufactured, assembled, grown or harvested in Louisiana. Do you claim this preference? Yes ____ No _____. Note: Preferences shall not apply to service contracts. Is your Louisiana business workforce composed of a minimum of fifty percent Louisiana residents? Yes ____ No _____. Specify Item Number and location within Louisiana where the product is/was produced, manufactured, assembled, grown or harvested: _____ Note: This preference is not applicable for services.			

STANDARD TERMS & CONDITIONS	INVITATION TO BID	Page 3
SOLICITATION RFQ-0000002633	DUE DATE 10/16/2025	DUE TIME 11:00:00 AM
These standard terms and conditions shall apply to all LSU solicitations, unless otherwise specifically amended and provided for in the special terms and conditions, specifications, or other solicitation documents. In the event of conflict between the General Instructions to Suppliers or Standard Terms & Conditions and the Special Terms & Conditions, the Special Terms & Conditions shall govern. Bids submitted are subject to provisions of the laws of the State of Louisiana, including but not limited to: the University Procurement Code (LAC 34:XIII. Chapters 3-25) and the terms, conditions, and specifications stated in this solicitation.		
1. Supplier Enrollment		
Suppliers providing a bid/quote in response to a LSU solicitation must be setup in the University's new procurement system (Workday) for bid tabbing and award of a purchase order. Suppliers should complete the online supplier registration form prior to submitting a bid response and/or the bid due date and time to ensure bid tabbing can be done timely after the bid deadline. This website is used in place of a paper form and must be accompanied with an IRS Request for Taxpayer Identification Number and Certification form (W-9 or W-8 if foreign) to collect the required business and tax information that support the University's reporting and compliance requirements. To inquire if you or your company is setup or for questions regarding setup, email suppliers@lsu.edu. The supplier enrollment form can be located at: http://www.lsu.edu/administration/ofa/procurement/supplier_registration.php		
2. Bid Delivery and Receipt		
Bids must be received and time-stamped at the "Return Bid To" address no later than the due date and time specified herein. To assure consideration, your bid must be submitted in a sealed envelope or package and should be clearly and prominently marked with the solicitation number and bid due date, or may be submitted in the special bid return envelope if one was furnished for that purpose.		
Supplier are advised that the U.S. Postal Service does not make deliveries to our physical location. USPS mail is delivered to the University's mail center and is redelivered using internal resources. Suppliers may deliver bids by hand or by a courier service to the Procurement Office. The University shall not be responsible for any delays caused by the supplier's chosen means of bid delivery. Supplier is solely responsible for the timely delivery of its bid, and failure to meet the bid due date and time shall result in rejection of the bid. Late bids cannot be accepted per LAC 34:XIII.515.B.		
3. Bid Forms		
Bids are to be submitted on the LSU solicitation forms provided, and must be signed by an authorized agent of the supplier in accordance with LAC 34:XIII.517. Bids submitted on other forms or in other price formats may be considered informal and may be rejected in part or in its entirety. Bids submitted in pencil and/or bids containing no original signature indicating the supplier's intent to be bound will not be accepted. Bid submissions should not be spiral bound.		
4. Interpretation of Solicitation/Supplier Inquiries		
If supplier is in doubt as to the meaning of any part or requirement of this solicitation, supplier may submit a written request for interpretation to the Buyer-of-Record at the address and/or fax number shown above. Written inquiries must be received in the Procurement Office no later than 4:30 pm CST four (4) business days prior to the opening of bids, and shall be clearly crossreferenced to the relevant solicitation/specification in question.		
No decisions or actions shall be executed by any supplier as a result of oral discussions with any LSU employee or consultant. Any interpretation of the documents will be made by formal addendum only, issued by the Procurement Office, and mailed or delivered to all suppliers known to have received the solicitation. LSU shall not be responsible for any other interpretations or assumptions made by supplier.		
5. Bid Addenda		
Bid Addendum is to be signed and returned with your bid. If you have already submitted your bid, and this Addendum creates a need to revise/clarify your original response in any way, you are required to submit such in writing. To be considered, your addendum response must be submitted to and received by LSU Procurement at the "Return Bid To" address stated above. Submittals for price alterations and addenda to bids must be clearly marked with the solicitation number and the bid due date/ time and returned via fax, email, courier service, hand delivery, or USPS mail. Bid revisions received after bid opening cannot be considered, whereupon the supplier must either honor or withdraw its original bid.		
6. Bid Opening		
Suppliers may attend the public bid opening of sealed bids. No information or opinions concerning the ultimate contract award will be given at bid opening or during the evaluation process. Written bid tabulations will not be furnished.		
7. Special Accommodations		
Any "qualified individual with a disability" as defined by the Americans with Disabilities Act, who has submitted a bid and desires to attend the public bid opening, must notify the Procurement Office in writing not later than seven days prior to the bid opening date of their need for special accommodations. If the request cannot be reasonably provided, the individual will be informed prior to the bid opening.		

STANDARD TERMS & CONDITIONS	INVITATION TO BID	Page 4
SOLICITATION RFQ-0000002633	DUE DATE 10/16/2025	DUE TIME 11:00:00 AM
8. Standards of Quality Any product or service bid shall conform to all applicable federal, state and local laws and regulations, and the specifications contained in the solicitation. Any manufacturer's name, trade name, brand name, or catalog number used in the specification is for the purpose of describing the standard of quality, performance, and characteristics desired; and is not intended to limit or restrict competition. Supplier must specify the brand and model number of the product offered in his bid. Bids not specifying brand and model number shall be considered as offering the exact product specified in the solicitation. 9. New Products/Warranty/Patents All products bid for purchase must be new, never previously used, of the manufacturer's current model and/or packaging, and of best quality as measured by acceptable trade standards. No remanufactured, demonstrator, used or irregular products will be considered for purchase unless otherwise specified. The manufacturer's standard published warranty and provisions shall apply, unless more stringent warranties are otherwise required by LSU and specified in the solicitation. In such cases, the supplier and/or manufacturer shall honor the specified warranty requirements, and bid prices shall include any premium costs of such coverage. Supplier guarantees that the products proposed and furnished will not infringe upon any valid patent or trademark; and shall, at its own expense, defend any and all actions or suits charging such infringement, and shall save LSU harmless. 10. Descriptive Information Suppliers proposing an equivalent brand or model are to submit with the bid descriptive information (such as literature, technical data, illustrations, etc) sufficient for LSU to evaluate quality, suitability, and compliance with the specifications. Failure to submit descriptive information may cause bid to be rejected. Any changes made by supplier to a manufacturer's published specifications shall be verifiable by the manufacturer. If items bid do not fully comply with specifications, supplier must state in what respect items deviate. Supplier's failure to note exceptions in its bid will not relieve the supplier from supplying the actual products requested. 11. Bids/Prices/F.O.B. Point • The bid price for each item is to be quoted on a "net" basis and F.O.B. LSU Destination, i.e. title passing upon receipt and inclusive of all delivery charges, any item discounts, etc. • Bids other than F.O.B. LSU Destination may be rejected. • Bids indicating estimated freight charges may be rejected. • Bids requiring deposits, payment in advance, or C.O.D. terms may be rejected. • Suppliers who do not quote "net" item prices and who separately quote an overall "lump sum" freight cost or discount for all items shall be considered as submitting an "all-or-none" bid for evaluation and award purposes; and risk rejection if award is made on an item or grouped basis. • Prices shall be firm for acceptance for a minimum of 30 days, unless otherwise specified. Bids conditioned with shorter acceptance periods may be rejected. • Prices are to be quoted in the unit/package specified (e.g. each, 12/box, etc), or may be rejected. • In the event of extension errors, the unit price bid shall prevail. 12. Taxes Supplier is responsible for including all applicable taxes in the bid price. LSU is exempt from all Louisiana state and local sales and use taxes. By accepting an award, resident and non-resident firms acknowledge their responsibility for the payment of all taxes duly assessed by the State of Louisiana and its political subdivisions for which they are liable, including but not limited to: franchise taxes, privilege taxes, sales taxes, use taxes, ad valorem taxes, etc. 13. Terms and Conditions This solicitation contains all terms and conditions with respect to the purchase of the goods and/or services specified herein. Submittal of any contrary terms and conditions may cause your bid to be rejected. By signing and submitting a bid, supplier agrees that contrary terms and conditions which may be included in its bid are nullified. 14. Supplier Forms/LSU Signature Authority The terms and conditions of the LSU solicitation and purchase order/contract shall solely govern the purchase agreement, and shall not be amended by any supplier contract, form, etc. The University's chief procurement officer, or authorized designee, is delegated sole authority to execute/sign any supplier contracts, forms, etc, on behalf of LSU. Departments are expressly prohibited from signing any supplier forms. Any such supplier contracts/forms bearing unauthorized signatures shall be null and void, shall have no legal force, and shall not be recognized by LSU in any dispute arising therefrom. Suppliers who present any such forms to department users for signature without regard to this strict LSU policy may face contract cancellation, suspension, and/or debarment. 15. Awards Award will be made to the lowest responsible and responsive supplier. LSU reserves the right: (1) to award items separately, grouped, or on an all-or-none basis, as deemed in its best interest; (2) to reject any or all bids and/or items; and (3) to waive any informalities. All solicitation specifications, terms and conditions shall be made part of any subsequent award as if fully reproduced and included therein, unless specifically amended in the formal contract.		

STANDARD TERMS & CONDITIONS	INVITATION TO BID	Page 5
SOLICITATION RFQ-0000002633	DUE DATE 10/16/2025	DUE TIME 11:00:00 AM
16. Acceptance of Bid Only the issuance of an official LSU purchase order/contract, a Notification of Award letter, or a Notification of Intent to Award letter shall constitute the University's acceptance of a bid. LSU shall not be responsible in any way to a supplier for goods delivered or services rendered without an official purchase order/contract or award letter. Bid tabulations may be requested after acceptance of bid. 17. Applicable Law All contracts shall be construed in accordance with and governed by the laws of the State of Louisiana. 18. Awarded Products/Unauthorized Substitutions Only those awarded brands and numbers stated in the LSU contract are approved for delivery, acceptance, and payment purposes. Any substitutions require prior approval of the Procurement Office. Unauthorized product substitutions are subject to rejection at time of delivery, post-return at supplier's expense, and non-payment. 19. Testing/Rejected Goods Supplier warrants that the products furnished will be in full conformity with the specification, drawing or sample, and agrees that this warranty shall survive delivery, acceptance, and use. Any defect in any product may cause its rejection. LSU reserves the right to test products for conformance to specifications both prior to and after any award. Supplier shall bear the cost of testing if product is found to be non-compliant. All rejected goods will be held at supplier's risk and expense, and subject to supplier's prompt disposition. Unless otherwise arranged, rejected goods will be returned to the supplier freight collect. 20. Delivery Supplier is responsible for making timely delivery in accordance with its quoted delivery terms. Supplier shall promptly notify the LSU Department and/or Procurement Office of any unforeseen delays beyond its control. In such cases, LSU reserves the right to cancel the order and to make alternative arrangements to meet its needs. 21. Default of Supplier Failure to deliver within the time specified in the bid/award will constitute a default and may be cause for contract cancellation. Where the University has determined the supplier to be in default, LSU reserves the right to purchase any or all goods or services covered by the contract on the open market and to surcharge the supplier with costs in excess of the contract price. Until such assessed surcharges have been paid, no subsequent bids from the defaulting supplier will be considered for award. 22. Supplier Invoices Invoices shall reference the LSU purchase order number, supplier's packing list/delivery ticket number, shipping/delivery date, etc. Invoices are to be itemized and billed in accordance with the order, and submitted on the supplier's own invoice form. Invoices submitted by the supplier's third party supplier are not acceptable. 23. Delinquent Payment Penalties Delinquent payment penalties are mandated and governed by Louisiana R.S. 39:1695. Supplier penalties to the contrary shall be null and void, shall have no legal force, and shall not be recognized by LSU in any dispute arising therefrom. 24. Assignment of Contract/Contract Proceeds Supplier shall not assign, sublet or transfer its contractual responsibilities, or payment proceeds thereof, to another party without the prior written consent and approval of the Procurement Office. Unauthorized assignments of contract or assignments of contract proceeds shall be null and void, shall have no legal force, and shall not be recognized by LSU in any dispute arising therefrom. 25. Right to Piggyback Where this solicitation may name one department as the primary contract user, LSU reserves the right to authorize additional departments/campuses to use the contract as their needs arise; and Vendor shall honor all such purchase orders. 26. Contract Cancellation LSU has the right to cancel any contract for cause, in accordance with procurement rules and regulations, including but not limited to: (1) failure to deliver within the time specified in the contract; (2) failure of the product or service to meet specifications, conform to sample quality or to be delivered in good condition; (3) misrepresentation by the supplier; (4) fraud, collusion, conspiracy or other unlawful means of obtaining any contract with the University; (5) conflict of contract provisions with constitutional or statutory provisions of state or federal law; (6) any other breach of contract. LSU has the right to cancel any contract for convenience at any time by giving thirty (30) days written notice to the supplier. In such cases, the supplier shall be entitled to payment for compliant deliverables in progress. 27. Prohibited Contractual Arrangements Per Louisiana R.S. 42:1113.A, no public servant, or member of such a public servant's immediate family, or legal entity in which he has a controlling interest shall bid on or enter into any contract, subcontract, or other transaction that is under the supervision or jurisdiction of the agency of such public servant. See statute for complete law, exclusions, and provisions.		

STANDARD TERMS & CONDITIONS	INVITATION TO BID	Page 6
SOLICITATION RFQ-0000002633	DUE DATE 10/16/2025	DUE TIME 11:00:00 AM
28. Equal Employment Opportunity Compliance By submitting and signing this bid, supplier agrees to abide by the requirements of the following as applicable: Title VI and VII of the Civil Rights Act of 1964, as amended by the Equal Opportunity Act of 1972; federal Executive Order 11246; federal Rehabilitation Act of 1973, as amended; the Vietnam Era Veteran's Readjustment Assistance Act of 1974; Title IX of the Education Amendments of 1972; the Age Act of 1975; the Americans with Disabilities Act of 1990. Supplier agrees not to discriminate in its employment practices, and will render services under any contract entered into as a result of this solicitation without regard to race, color, religion, sex, age, national origin, veteran status, political affiliation, handicap, disability, or other non-merit factor. Any act of discrimination committed by supplier, or failure to comply with these statutory obligations when applicable, shall be grounds for termination of any contract entered into as a result of this solicitation. 29. Mutual Indemnification Each party hereto agrees to indemnify, defend, and hold the other, its officers, directors, agents and employees harmless from and against any and all losses, liabilities, and claims, including reasonable attorney's fees arising out of or resulting from the willful act, fault, omission, or negligence of the indemnifying party or of its employees, contractors, or agents in performing its obligations under this agreement, provided however, that neither party hereto shall be liable to the other for any consequential damages arising out of its willful act, fault, omission, or negligence. 30. Certification of No Suspension or Debarment By signing and submitting this bid, supplier certifies that its company, any subcontractors, or principals thereof, are not suspended or debarred under federal or state laws or regulations. A list of parties who have been suspended or debarred by federal agencies is maintained by the General Services Administration and can be viewed on the internet at www.sam.gov. 31. Right to Audit The University shall be entitled to audit the books and records of a supplier or any subcontractor under any negotiated contract or subcontract to the extent that such books and records relate to the performance of such contract or subcontract. Such books and records shall be maintained by the supplier for a period of five (5) years from the date of final payment under the prime contract and by the subcontractor for a period of five (5) years from the date of final payment under the subcontract, pursuant to LAC 34:XIII.1603. 32. Data Privacy By signing and submitting this bid, I hereby authorize that all information provided in this solicitation, including any and all personal or company data may be shared with LSU departments, suppliers and other governmental agencies to facilitate procurement transactions. This data will be retained according to LSU's retention schedule. To learn more about privacy at LSU, please see the LSU Privacy Statement.		

PRICE SHEET		INVITATION TO BID			Page 7	
SOLICITATION RFQ-0000002633		DUE DATE 10/16/2025		DUE TIME 11:00:00 AM		
ITEM NO.	ITEM DESCRIPTION	QUANTITY	UOM	UNIT PRICE	EXTENDED AMOUNT	
UNLESS SPECIFIED ELSEWHERE, SHIP ALL ITEMS TO: LSU Oys Hatchery 135 LSU Drive Grand Isle, LA 70358						
1	All or None Item 1 - 25-L Bag with Wi-Fi pH & Temp Control with/ CO2 solenoids, CO2 and Air rotameters, pH and temperature probes Specify Manufacturer / Brand Bid: _____ Specify Model / Number Bid: _____	3	Each	\$ _____	\$ _____	
2	All or None Item 2 - 2 bar LED system with power supply, manual dimmer, remote, and mounting hardware Specify Manufacturer / Brand Bid: _____ Specify Model / Number Bid: _____	3	Each	\$ _____	\$ _____	
3	All or None Item 3 - 25-L Bag Hanger/Shelf System Specify Manufacturer / Brand Bid: _____ Specify Model / Number Bid: _____	6	Each	\$ _____	\$ _____	

PRICE SHEET		INVITATION TO BID		Page 8	
SOLICITATION RFQ-0000002633		DUE DATE 10/16/2025		DUE TIME 11:00:00 AM	
ITEM NO.	ITEM DESCRIPTION	QUANTITY	UOM	UNIT PRICE	EXTENDED AMOUNT
4	All or None Item 4 - 25-L Tubing and Fitting assemblies for inlet and outlet air ports -SPT250 Silicone Tubing for Inlet Air - 36" -SPT250 Silicone Tubing for Sample Port - 6" - SPT500 Silicone Tubing for Outlet Air - 22" - Female Luer Lock & Plug Fittings -3- Large Pinch Clamps Specify Manufacturer / Brand Bid: _____ Specify Model / Number Bid: _____	8	Each	\$ _____	\$ _____
5	All or None Item 5 - peristaltic pump with Pump Head Specify Manufacturer / Brand Bid: _____ Specify Model / Number Bid: _____	1	Each	\$ _____	\$ _____
6	All or None Item 6 - 1/2" x 3/4" platinum cured silicone tubing, 50 ft roll (masterflex (or equivalent) size 82) Specify Manufacturer / Brand Bid: _____ Specify Model / Number Bid: _____	1	Each	\$ _____	\$ _____
7	All or None Item 7 - 60 LPM Air Pump, 120 Vault Specify Manufacturer / Brand Bid: _____ Specify Model / Number Bid: _____	1	Each	\$ _____	\$ _____

PRICE SHEET			INVITATION TO BID		Page 9	
SOLICITATION RFQ-0000002633			DUE DATE 10/16/2025		DUE TIME 11:00:00 AM	
ITEM NO.	ITEM DESCRIPTION	QUANTITY	UOM	UNIT PRICE	EXTENDED AMOUNT	
8	All or None Item 8 - Gamma Irradiated Bags with pH ports Specify Manufacturer / Brand Bid: _____ Specify Model / Number Bid: _____	20	Each	\$ _____	\$ _____	
9	All or None Item 9 - MDIAseptiCap KS PTFE capsule filter, 2", 0.45/0.2 micron, 1/2" inlet outlet, must be autoclavable Specify Manufacturer / Brand Bid: _____ Specify Model / Number Bid: _____	10	Each	\$ _____	\$ _____	
10	All or None Item 10 - MDIAseptiCap KS PTFE capsule filter, 2", 0.45/0.2 micron, 14" inlet outlet, must be autoclavable Specify Manufacturer / Brand Bid: _____ Specify Model / Number Bid: _____	10	Each	\$ _____	\$ _____	
11	All or None Item 11 - Welded Aluminum End Panel Frame, 1.2' x 6.5', PVC coated/galvanized cage with hardware Specify Manufacturer / Brand Bid: _____ Specify Model / Number Bid: _____	12	Each	\$ _____	\$ _____	

PRICE SHEET		INVITATION TO BID		Page 10	
SOLICITATION RFQ-0000002633		DUE DATE 10/16/2025		DUE TIME 11:00:00 AM	
ITEM NO.	ITEM DESCRIPTION	QUANTITY	UOM	UNIT PRICE	EXTENDED AMOUNT
12	All or None Item 12 - Aluminum Side Panel Frame, 4.2' x 6.5 ft, PVC coated/galvanized cage with hardware Specify Manufacturer / Brand Bid: _____ Specify Model / Number Bid: _____	24	Each	\$ _____	\$ _____
13	All or None Item 13 - APEX remote WIFI control box including Nema 4 enclosure with a cooling fan, CO2 solenoid for pH control, CO2 rotameter, and pH and Temperature probes Specify Manufacturer / Brand Bid: _____ Specify Model / Number Bid: _____	6	Each	\$ _____	\$ _____
14	All or None Item 14 - LED power supply and control inside the Nema 4 enclosure with two 220 V power supply, 220 V cooling fan, and Neptune System Variable dimming module (or equivalent) Specify Manufacturer / Brand Bid: _____ Specify Model / Number Bid: _____	6	Each	\$ _____	\$ _____
15	All or None Item 15 - exhaust filter housing and mount for 900 L units Specify Manufacturer / Brand Bid: _____ Specify Model / Number Bid: _____	6	Each	\$ _____	\$ _____

PRICE SHEET			INVITATION TO BID		Page 11	
SOLICITATION RFQ-0000002633			DUE DATE 10/16/2025		DUE TIME 11:00:00 AM	
ITEM NO.	ITEM DESCRIPTION	QUANTITY	UOM	UNIT PRICE	EXTENDED AMOUNT	
16	All or None Item 16 - 46" LED light bars, IP67, includes mounting brackets, wiring harness, and hardware Specify Manufacturer / Brand Bid: _____ Specify Model / Number Bid: _____	96	Each	\$ _____	\$ _____	
17	All or None Item 17 - 120 LPM Air Pump, 120 Volt Specify Manufacturer / Brand Bid: _____ Specify Model / Number Bid: _____	6	Each	\$ _____	\$ _____	
18	All or None Item 18 - All Tubing and Fittings for 900-L units • SPT500 Silicone tubing for filter outlet - 81" (QTY 1) • SPT1000 Silicone tubing for refill and drain ports - 6" (QTY 2) • SPT1000 Silicone tubing for exhaust air - 21" (QTY 1) 1" PP plug (QTY 2) 1/2" PP plug (QTY 1) • Large Bore Tube Clamp (QTY 2) • Large Pinch Clamp (QTY 1) Specify Manufacturer / Brand Bid: _____ Specify Model / Number Bid: _____	6	Each	\$ _____	\$ _____	
19	All or None Item 19 - Neptune System Return Pump, or equivalent (2000 GPH) Specify Manufacturer / Brand Bid: _____ Specify Model / Number Bid: _____	1	Each	\$ _____	\$ _____	

PRICE SHEET			INVITATION TO BID		Page 12	
SOLICITATION RFQ-0000002633			DUE DATE 10/16/2025		DUE TIME 11:00:00 AM	
ITEM NO.	ITEM DESCRIPTION	QUANTITY	UOM	UNIT PRICE	EXTENDED AMOUNT	
20	All or None Item 20 - 900 L gamma irradiated bags, 9 ports Specify Manufacturer / Brand Bid: _____ Specify Model / Number Bid: _____	24	Each	\$ _____	\$ _____	
21	All or None Item 21 - MDI AseptiCap KS PTFE capsule filter, 8",0.2 micron, 1/2" inlet outlet hose barb, must be autoclavable 25 times Specify Manufacturer / Brand Bid: _____ Specify Model / Number Bid: _____	10	Each	\$ _____	\$ _____	
22	All or None Item 22 - 10" water filter, 0.45/0.2 micron, PES membrane, 4" hose barb, must be autoclavable 25 times Specify Manufacturer / Brand Bid: _____ Specify Model / Number Bid: _____	10	Each	\$ _____	\$ _____	
23	All or None Item 23 - 1" x1-1/2" platinum cured silicone tubing, 50 ft roll Specify Manufacturer / Brand Bid: _____ Specify Model / Number Bid: _____	1	Each	\$ _____	\$ _____	

PRICE SHEET			INVITATION TO BID		Page 13	
SOLICITATION RFQ-0000002633			DUE DATE 10/16/2025		DUE TIME 11:00:00 AM	
ITEM NO.	ITEM DESCRIPTION	QUANTITY	UOM	UNIT PRICE	EXTENDED AMOUNT	
24	All or None Item 24 - Exhaust Filter Cartridge for 900-L system, 0.375 micron Specify Manufacturer / Brand Bid: _____ Specify Model / Number Bid: _____	18	Each	\$ _____	\$ _____	
25	All or None Item 25 - single junction lab grade pH probe with 10 ft cable and BNC type connector Specify Manufacturer / Brand Bid: _____ Specify Model / Number Bid: _____	10	Each	\$ _____	\$ _____	
26	All or None Item 26 - inline probe holder - compression fitting Specify Manufacturer / Brand Bid: _____ Specify Model / Number Bid: _____	22	Each	\$ _____	\$ _____	
27	All or None Item 27 - Reactor Crating - Modular bioreactors must be created for shipping to prevent transportation damage. Specify Manufacturer / Brand Bid: _____ Specify Model / Number Bid: _____	2	Each	\$ _____	\$ _____	

**Specifications for Algae Bioreactors for the Production of Algae
at the Louisiana Sea Grant Oyster Research Lab**

I. General Terms

Project consists of supplying **MODULAR bioreactors systems** and training and installation pertaining to the bag installation, inoculation, system operation, and assistance with set-up and installation overview.

All items must be delivered by November 14, 2025.

Due to limitations in existing space, exact volumes and measurements must be followed.

II. Bioreactor Specifications

A. 25-L Bioreactor System: A Hanging Bag bioreactor system used to culture starter algae stocks for larger bioreactor systems. Systems must retain resistance to contamination for over 2 months from the time of inoculation. Hanging bags must include ports for pH (CO₂) control and temperature logging.

Item 1 - (Quantity of 3) 25-L Bag with Wi-Fi pH & Temp Control with/ CO₂ solenoids, CO₂ and Air rotameters, pH and temperature probes

Item 2 - (Quantity of 3) 2 bar LED system with power supply, manual dimmer, remote, and mounting hardware

Item 3 - (Quantity of 6) 25-L Bag Hanger/Shelf System

Item 4 – (Quantity of 8) Tubing and Fitting assemblies to construct inlet and outlet air ports for hanging bag reactors. Tubing and fittings in the assembly include:

- SPT250 Silicone Tubing for Inlet Air – 36"
- SPT250 Silicone Tubing for Sample Port - 6"
- SPT500 Silicone Tubing for Outlet Air - 22"
- Female Luer Lock & Plug Fittings
- 3-Large Pinch Clamps

Item 5 - (Quantity of 1) peristaltic pump with Pump Head

Item 6 - (Quantity of 1) ½" x ¾" platinum cured silicone tubing, 50 ft roll (masterflex (or equivalent) size 82)

Item 7 - (Quantity of 1) 60 LPM Air Pump, 120 Vault

Item 8 - (Quantity of 20) Gamma Irradiated Bags with pH ports

Item 9 - (Quantity of 10) MDI AseptiCap KS PTFE capsule filter, 2", 0.45/0.2 micron, 1/2" inlet outlet, must be autoclavable

Item 10 - (Quantity of 10) MDI AseptiCap KS PTFE capsule filter, 2", 0.45/0.2 micron, ¼" inlet outlet, must be autoclavable

B. 900-L Bioreactor System: Design is for a 6 modular panel system with gamma irradiated bag. The bag must have a built-in air sparger that helps to remove light blocking biofilm. The 6 bioreactors must fit in a 160" x 259 ½" area. Reactors must be able to be installed 30" apart from each other.

Item 11 - (Quantity of 12) Welded Aluminum End Panel Frame, 1.2' x 6.5', PVC coated/galvanized cage with hardware

Item 12 - (Quantity of 24) Aluminum Side Panel Frame, 4.2' x 6.5 ft, PVC coated/galvanized cage with hardware

Item 13 - (Quantity of 6) APEX remote WIFI control box including Nema4 enclosure with a cooling fan, CO2 solenoid for pH control, CO2 rotameter, and pH and Temperature probes

Item 14 - (Quantity of 6) LED power supply and control inside the Nema 4 enclosure with two 220 V power supply, 220 V cooling fan, and Neptune System Variable dimming module (or equivalent)

Item 15 - (Quantity of 6) exhaust filter housing and mount for 900 L units

Item 16 - (Quantity of 96) 46" LED light bars, IP67, includes mounting brackets, wiring harness, and hardware

Item 17 - (Quantity of 6) 120 LPM Air Pump, 120 Volt

Item 18 - All Tubing and Fittings to construct (6) 900-L units. Tubing and fittings assemblies include the following:

- SPT500 Silicone tubing for filter outlet - 81" (QTY 1)
- SPT1000 Silicone tubing for refill and drain ports – 6" (QTY 2)
- SPT1000 Silicone tubing for exhaust air - 21" (QTY 1)
- 1" PP plug (QTY 2)
- 1/2" PP plug (QTY 1)
- Large Bore Tube Clamp (QTY 2)
- Large Pinch Clamp (QTY 1)

Item 19 - (Quantity of 1) Neptune System Return Pump, or equivalent (2000 GPH)

Item 20 - (Quantity of 24) 900 L gamma irradiated bags, 9 ports

Item 21 - (Quantity of 10) MDI AseptiCap KS PTFE capsule filter, 8", 0.2 micron, 1/2" inlet outlet hose barb, must be autoclavable 25 times

Item 22 - (Quantity of 10) 10" water filter, 0.45/0.2 micron, PES membrane, ½" hose barb, must be autoclavable 25 times

Item 23 - (Quantity of 1) 1" x 1-1/2" platinum cured silicone tubing, 50 ft roll

Item 24 - (Quantity of 18) Exhaust Filter Cartridge for 900-L system, 0.375 micron

Item 25 - (Quantity of 10) single junction lab grade pH probe with 10 ft cable and BNC type connector

Item 26 - (Quantity of 22) inline probe holder – compression fitting

Reactor Crating

Modular bioreactors must be created for shipping to prevent transportation damage.

Shipping and Delivery

Supplier will package bioreactors in standard crating. Bioreactors must be shipped to Michael C. Voisin Oyster Hatchery, 135 LSU Drive, Grand Isle, Louisiana, 70358. Attention to: Elizabeth Robinson.

To ensure an LSU staff member is available to receive the order, supplier must call ahead to schedule delivery. **No loading dock is available**, and the offload area is not protected from inclement weather. Parking area is gravel and not paved. Delivery truck must come with forklift or jack lift assistance to unload crates off of the truck.

Modular bioreactors must be crated for shipping to prevent transportation damage.

Training and Installation

Supplier must provide three days of onsite training at the Oyster Hatchery for bag installation, inoculation, system operation, and assistance with set up and installation overview. Quoted price must include all related travel expenses.

Training and installation services must be completed by February 28, 2026.



Insurance Minimum Limits and Requirements for Standard Contractor/Vendor Agreements

INSURANCE

The Board of Supervisors of Louisiana State University and Agricultural and Mechanical College (henceforth referred to as "University") requires contractors/vendors to procure the below minimum limits. The insurance must be maintained for the duration of work performed for or on behalf of the University, and for the length of any agreement with the University. Failure to maintain the required insurance throughout the term of the Agreement shall be a material breach, and shall entitle University to all remedies provided for in the Agreement, or by operation of law. The minimum insurance requirements described herein do not in any way limit the contractor/vendors' financial responsibilities as outlined in the agreement's Indemnification requirements. Therefore, the contractor/vendor may opt to have broader coverage and limits to satisfy its financial obligations.

Workers' Compensation

Workers' Compensation insurance shall be in compliance with the laws of the state in which the company is domiciled. Employer's Liability shall be included with a minimum limit of \$1,000,000 per accident/per disease/per employee. If Contractor/vendor is exempt from workers' compensation or fails to provide appropriate coverage, then the Contractor/vendor is or agrees to be solely responsible and hold harmless the University for the injuries of any owners, agents, volunteers, or employees during the course of the agreement.

Commercial General Liability (CGL)

Commercial General Liability insurance shall be maintained on an "occurrence" basis, including property damage, bodily injury, products & completed operations, and personal & advertising injury with limits not less than \$1,000,000 per occurrence and \$2,000,000 aggregate on Insurance Services Office Form CG 00 01, ISO 2007 edition or equivalent.

Automobile Liability

Automobile Liability Insurance shall have a minimum combined single limit per accident of \$1,000,000 on ISO form number CA 00 01 or equivalent. This insurance shall include third-party bodily injury and property damage liability for owned, hired and non-owned vehicles.

Excess Insurance

Umbrella or Excess insurance may be used to meet the minimum limit requirements for liability insurance.

Other Insurance Requirements

Additional Insured Status

The University is to be listed as an Additional Insured on the Commercial General Liability (must use an endorsement at least as broad as ISO Form CG 20 10 11 85 or both CG 20 10 and CG 20 37 forms with edition date 2004 if later revisions used). See *Verification of Coverage* section on how the University should be listed as an Additional Insured.

Waiver of Subrogation/Recovery

All insurances shall include a waiver of subrogation/recovery in favor of the University.

Primary Coverage and Limits of Insurance

For any claims related to work performed for or on behalf of the University or related to an agreement/purchase order, the contractor/vendor's insurance coverage shall be primary insurance as respects to the University. Any applicable insurance or self-insurance maintained by the University shall be excess of the Contractor/vendor's insurance and shall not contribute with it.

Subcontractors

Subcontractors of the Contractor/vendor shall be subject to all of the requirements stated herein. Contractor/vendor shall include all subcontractors as insureds under its policies or shall be responsible for verifying insurance coverages and limits and maintaining Certificates of Insurance for each subcontractor. The University reserves the right to receive from the Contractor/vendor copies of subcontractors' certificates.

Deductibles and Self-Insured Retentions

Any deductibles or self-insured retentions above \$25,000 must be approved by the University or reduced prior to the commencement of work. The University may require the Contractor/vendor to provide proof of ability to pay losses and related investigations, claim administration, and defense expenses within the retention.

Acceptability of Insurers

Insurance is to be placed with insurers with a current A.M. Best's rating of no less than A- VII, unless otherwise approved by the University.

Verification of Coverage

The University shall be listed as Additional Insured and Certificate Holder as follows:

**The Board of Supervisors of Louisiana State
University and Agricultural & Mechanical College
213 Thomas Boyd Hall
Baton Rouge, LA 70803**

Certificates of Insurance shall be furnished to the University evidencing the insurance required herein including amendatory endorsements. The University's failure to obtain the required documents prior to the work beginning or acceptance of a non-compliant certificate shall not waive the Contractor/vendor's obligation to have in place the required insurances or to provide the certificate. The University reserves the right to require certified copies of all the insurance policies, including endorsements.

Special Risks or Circumstances

LSU reserves the right to consider alternate coverage or limits and to modify these requirements, based on the nature of the risk, prior experience, insurer, coverage, or other special circumstances.



Insurance Minimum Limits and Requirements for Standard Supplier Agreements (no services to be performed)

The Board of Supervisors of Louisiana State University and Agricultural and Mechanical College (henceforth referred to as "University") requires contractors/vendors to procure the below insurance. The insurance must be maintained for the duration of work performed for or on behalf of the University, and for the length of any agreement with the University. Failure to maintain the required insurance throughout the term of the Agreement shall be a material breach, and shall entitle University to all remedies provided for in the Agreement, or by operation of law. The minimum insurance requirements described herein do not in any way limit the contractor/vendors' financial responsibilities as outlined in the agreement's Indemnification requirements; therefore, the contractor/vendor may opt to have broader coverage and limits to satisfy its financial obligations.

Workers' Compensation

Workers' Compensation insurance shall be in compliance with the laws of the state in which the company is domiciled. Employer's Liability shall be included with a minimum limit of \$1,000,000 per accident/per disease/per employee. If Supplier is exempt from workers' compensation then the Supplier is or agrees to be solely responsible and hold harmless the University for the injuries of any owners, agents, volunteers, or employees during the course of the agreement.

Commercial General Liability (CGL)

Commercial General Liability insurance shall be maintained on an "occurrence" basis, including property damage, bodily injury, products & completed operations, and personal & advertising injury with limits not less than \$1,000,000 per occurrence and \$2,000,000 aggregate on Insurance Services Office Form CG 00 01, ISO 2007 edition or equivalent.

Automobile Liability

Automobile Liability Insurance shall have a minimum combined single limit per accident of \$1,000,000. This insurance shall include third-party bodily injury and property damage liability for owned, hired and non-owned vehicles.

Excess Insurance

Umbrella or Excess insurance may be used to meet the minimum limit requirements for liability insurance.

Other Insurance Requirements

Additional Insured Status

The University is to be listed as an Additional Insured on the Commercial General Liability policy.

Primary Coverage

For any claims related to an agreement/purchase order, the suppliers' insurance coverage shall be primary insurance as respects to the University. Any applicable insurance or self-insurance maintained by the University shall be excess of the supplier's insurance and shall not contribute with it.

Acceptability of Insurers

Insurance is to be placed with insurers with a current A.M. Best's rating of no less than A- VII, unless otherwise approved by the University.

Special Risks or Circumstances

LSU reserves the right to consider alternate coverage or limits and to modify these requirements, based on the nature of the risk, prior experience, insurer, coverage, or other special circumstances.