



Republic of the Philippines
NUEVA ECILJA UNIVERSITY OF SCIENCE AND TECHNOLOGY
Cabanatuan City
044-463-0226
www.neust.edu.ph

INVITATION TO BID

The Nueva Ecija University of Science and Technology through its Bids and Awards Committee (BAC), invites entities to bid for the hereunder projects:

Name of Project: **High Fidelity Mannequins for Nursing Laboratory**

Location: College of Nursing, NEUST, Cabanatuan City

Approved Budget for the Contract (ABC): Php 6,000,000.00

Contract Duration: 45 Calendar Days

Fund Source: Income

Bid Documents: Php 10,000.00

Strict health protocol:

- Suppliers/Bidders are advised to undergo RT-PCR Test/Antigen Test at least 3 days before the actual dates of the procurement schedules, otherwise security personnel will deny them entry to the campus.
- Failure to submit test result and medical certificate upon entry to the campus shall be deemed as a waiver of their right to be present.

ITEM DESCRIPTION/SPECIFICATION:

1. 1 unit - High Fidelity Mannequins with Simulator Control Software

Description: Patient Simulator Mannequins with software that train individual and team skills at the point-of-injury, during transport, and in the hospital, in both real and simulated environments. Physiological features allow learners to monitor and manage an infinite of simulated conditions using real tools and medical devices.

- Train oral or nasal intubation : ETT, LMA, King LT, tracheostomy and needle cricothyrotomy.
- Monitor CPR quality, EtCO₂ defibrillation, and medication management.
- Attach real electrodes, pads or paddles and monitor, lifelike rhythm in real-time.
- Bilateral carotid, radial, brachial, femoral, popliteal, and pedal pulses. Pulse strengths vary with BP and pulses are synchronized with the ECG.
- Monitor, capture , cardiovert, and pace using a real defibrillator and real energy
- Bilateral IV access for bolus and or infusion training and simulate the effects using the virtual drug administration.
- Completely self-contained and wireless and fully operational on battery for up to 6 hours.
- Train pupil examination, male/female catheterization, IV administration, tracheostomy care.

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- Include preloaded and preconfigure on the rugged 12" wireless tablet PC
- Preprogrammed scenarios, on-the-fly controls, or the physiologic model
- Simulator software include library of pre- programmed scenarios included or can modify to create your own.
- Automatic Physiologic control, the integrated automatic operating mode simulates lifelike responses to the care provided, medications, trauma, and much more.
- Simulator software include 52 commonly used medications that easily to modify the effect of each medications or add new ones using the built-in pharmacology editor.
- CPR Monitoring, monitor and assess CPR performance in real-time, simulate perfusion dependent on effectiveness, and export performance reports debriefing.
- Simulator software: No Annual operating fees or software update fee.

Features:

General

- Wireless and tetherless; fully responsive even while being transported¹
- Internal rechargeable battery provides up to 6 hrs. of tetherless operation²

Airway

- Oral or nasal intubation: ETT, LMA, King LT™, i-gel®
- Laryngospasm, pharyngeal swelling, tongue edema
- Intubation depth detection
- Surgical airway: tracheostomy or needle cricothyrotomy
- Mainstem intubation
- Multiple upper airway sounds

Breathing

- Spontaneous breathing and programmable patterns
- Ventilation is measured and logged
- Gastric distension with excess BVM ventilation
- Select independent left, right, upper, and lower lung sounds
- Chest rise during assisted ventilation
- Tension pneumothorax and bilateral needle decompression sites
- Bilateral chest tube sites at 5th intercostal space

Neurologic

- Active Eyes; programmable blink rate, pupil size, and pupil reaction
- Severe or mild seizures
- Preprogrammed speech responses
- Wireless streaming voice

Circulation

- Normal and abnormal heart sounds, rates, and intensities
- 4-Lead ECG monitoring using real devices; 12-lead ECG capable³
- eCPR sensors; chest compressions are measured and logged
- Monitor oxygen saturation using a real oximeter
- Measurable blood pressure with audible Korotkoff sounds
- Visible cyanosis
- Bilateral carotid, radial, brachial, femoral, popliteal, and pedal pulses
- Bilateral IV sites
- Optional virtual drug recognition³
- Intraosseous access at tibia

Other

- Bowel sounds in four quadrants
- Male urinary catheterization with fluid return

2. 1 Unit – Female Nursing Care Patient Simulator with effective simulation learning experiences (SLE) Educational Package

Realistic and completely wireless and tetherless. This means learners can practice correct techniques and use real devices in the skills lab and apply them in team-building in-situ scenarios. Simulation Learning Experiences (SLEs) provide a learning resource comprised of 10 outcome-focused scenarios designed to replicate a clinical situation. Each comes complete with a detailed facilitator guide for setting up, planning, and facilitating the learning experience.

General

- Full-body adult patient
- Tetherless and wireless; fully responsive during transport
- Wireless control at distances of up to 40 Ft. (12 m).
- Realistic joint articulation
- Compatible with optional vital signs patient monitor
- OMNI 2 ready

Neurologic

- Preprogrammed speech responses
- Wireless streaming voice

Airway

- Oral and nasal endotracheal intubation/suctioning
- Sensors detect depth of intubation
- Tracheostomy care
- Selectable airway sounds

Gastrointestinal

- NG/OG intubation and feeding
- Bowel sounds
- Patent stoma sites
- Colostomy, ileostomy, and stoma care
- Rectum supports enemas

- Male/Female catheterization

Breathing

- Visible chest rise with BVM ventilation
- Ventilations are measured and logged
- Normal and abnormal lung sounds

Cardiac/Circulation

- Normal and abnormal heart sounds, rates, and intensities
- ECG monitoring using real devices
- eCPR™ sensors; chest compressions and ventilations are measured and logged in real-time
- Monitor, capture, pace, and cardiovert using a real defibrillator
- Bilateral IV training arms and IM sites
- Measurable blood pressure and audible Korotkoff sounds
- Bilateral (automatic) carotid, radial, femoral, and pedal pulses

GYN and Breast Exam

- Advanced GYN exam with optional interchangeable uteri and cervices
- Practice breast examination techniques. Compatible with optional BSE training kit

Includes 10 Nursing Simulation Learning Experiences (SLEs), a Facilitator's Guide, and Wireless Control Interface.

Includes 10 interactive scenarios and companion guide

- Acute Myocardial Infarction
- Acute Respiratory Distress and Syndrome Secondary to Motor Vehicle Crash
- Asthma Attack
- Chronic Obstructive Pulmonary and Disorder Exacerbation
- Fluid and Electrolyte Imbalance
- Heart Failure
- Hypoglycemia
- New Onset Diabetes
- Pneumonia
- Sepsis

Each Nursing SLE includes the following key features:

- Purpose of the SLE
- Evidence-based rationale for the topic
- Learning objectives of the SLE
- Competencies addressed
- Psycho-motor skills needed for successful participation
- Patient's medical history
- Supplies needed for the scenario
- Provider's orders
- Pre-briefing report to be given to students
- Scenario timeline with facilitator cues
- Scenario flowchart

Warranty, Terms and Conditions:

- 2-years product warranty
- 5 years availability of spare parts

Bidders must submit the following:

- Technical specifications details or Technical data indicating the brand name and model of item/s as additional technical requirements.
- After sales training-workshop at Nueva Ecija University of Science and technology after completion of deliver.

The schedule of the bidding activities are as follows:

Activities	Schedule
1. Advertisement	February 17, 2021 to February 24, 2021
2. Pre-bid Conference	February 26, 2021 09:00 AM NEUST President’s Office Conference Room, Sumacab, Cabanatuan City
3. Submission of Bids	March 11, 2021, UNTIL 9:00 AM NEUST President’s Office Conference Room, Sumacab, Cabanatuan City “Late bids shall not be accepted. Unsealed or unmarked bid envelopes shall also be rejected”
4. Opening of Bids	March 11, 2021 9:30 AM NEUST President’s Office Conference Room, Sumacab, Cabanatuan City
5. Post Qualification	March 12, 2021 9:00 AM NEUST President’s Office Conference Room, Sumacab, Cabanatuan City

“Late bids shall not be accepted. Unsealed or unmarked bid envelopes shall also be rejected”

Bidding will be conducted through open competitive bidding procedures using a non-discretionary “pass/fail” criterion as specified in the 2016 Revised Implementing Rules and Regulations (IRR) of Republic Act (RA) 9184, otherwise known as the “Government Procurement Reform Act”.

Bidding is restricted to Filipino citizens/sole proprietorships, partnerships, or organizations with at least sixty percent (60%) interest or outstanding capital stock belonging to citizens of the Philippines, and to citizens or organizations of a country the laws or regulations of which grant similar rights or privileges to Filipino citizens, pursuant to RA 5183.

A complete set of Bidding Documents may be acquired by interested Bidders from February 26 – March 11, 2021, 9:00 am upon payment of the applicable fee for the Bidding Documents, pursuant to the latest Guidelines issued by the GPPB in the amount of P10,000.00.

It may also be downloaded free of charge from the website of the Philippine Government Electronic Procurement System (PhilGEPS) and the website of the Procuring Entity, provided that Bidders shall pay the applicable fee for the Bidding Documents not later than the submission of their bids.

Bids must be duly received by the BAC Secretariat at the NEUST President's Office Conference Room, Sumacab Campus, Sumacab, Cabanatuan City on or before March 11, 2021 9:00 AM. All Bids must be accompanied by a bid security in any of the acceptable forms and in the amount stated in the PBD.

Bid opening shall be on March 11, 2021, 9:30 AM at NEUST Conference Room, Sumacab, Campus, Cabanatuan City. Bids will be opened in the presence of the bidders' representatives who choose to attend at the address below. Late bids shall not be accepted.

The Nueva Ecija University of Science and Technology reserves the right to reject any and all bids, declare a failure of bidding, or not award the contract at any time prior to contract award in accordance with Section 41 of RA 9184 and its IRR, without thereby incurring any liability to the affected bidder or bidders.

For more information concerning this bidding, please contact the following:

MS. MICHELLE A. SUPEÑA
Bids and Awards Committee Secretariat
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Approved by:

DR. HONORATO P. PANAHO
BAC Chairperson