



**AIMS**

African Institute for  
Mathematical Sciences  
**NEXT EINSTEIN INITIATIVE**

The Secretariat  
District Gasabo, Secteur Kacyiru  
Cellule Kamatamu Rue KG590 ST  
Kigali, Rwanda

March 9th, 2018

Dear Contractor/Vendor,

The African Institute for Mathematical Sciences, Next Einstein Initiative (AIMS-NEI), is seeking qualified candidates to submit proposals for the installation, termination and certification of structured cabling for its office within the building located at Alpha Palace AIMS RWANDA Center.

Please submit your proposal via email by 17:00 p.m. Central African Time (CAT), March 16th, 2018 to:

The Procurement Panel

African Institute for Mathematical Sciences - Next Einstein Initiative (AIMS-NEI),

Email ID: [procurementpanel@nexteinstein.org](mailto:procurementpanel@nexteinstein.org)

For any questions regarding how to submit your proposal, kindly send an email to the Project Manager: [procurementpanel@nexteinstein.org](mailto:procurementpanel@nexteinstein.org).

Kindly note that costs incurred by you in preparing and submitting the proposal will not be reimbursed.

We look forward to your response. Yours sincerely,

Rana Auditto,

Vice-President Operations & CFO

## REQUEST FOR QUOTATION (AIMS/RFQ/18/004)

Network and Electrical Cabling	
Date of issue:	Friday, 9 March 2018
Closing Date and Time:	Friday, 16 March 2018 at 5 PM COB
Contact details:	Quotations and enquiries must be submitted via email only and sent to; procurement@nexteinstein.org Always indicate the RFQ number with your submission
Category	IT Service

### 1. PURPOSE AND SCOPE:

The African Institute for Mathematical Sciences is seeking qualified candidates to submit proposals for the installation, termination and certification of structured cabling for its office within the building located at:

- Alpha Palace AIMS RWANDA Center

Installation of Internet requires that this office be equipped with a structured cabling system to support LAN and WLAN, thus enabling users to access and exchange Voice, Data and Video reliably across the Internet.

The scope of work is:

- ❖ Interconnect the QLA Server room and the AIMS Rwanda Center Server room with the optical fiber. The two (2) are separated at a 40m distance but it must be evaluated again by the vendors as the interconnection might be done differently.
- ❖ Install and terminate electrical cabling for the AIMS Research Center and the QLA.
- ❖ Install, terminate, and certify approximately 130 runs of Category 6a and 7 cabling organized into cabling rack cabinets. In addition, there will also be many single panel outlets RJ (approximately 50) Cat 6a and 7 to be terminated on walls for wireless equipment and various other devices that may need power over Ethernet.
- ❖ Install 80 UPS power outlets.
- ❖ Install 70 electrical sockets from the UPS source and 12 electrical fuses for each room partitions.
- ❖ The wireless network shall be fully compliant with industry standards and include auto update features.
- ❖ The wireless infrastructure shall provide the capacity to support a minimum of 60 concurrent users: 20 users in the in the Computer Lab and 20 concurrent users in other area.
- ❖ Install new Giga bits LAN switches with PoE and up link with multimode Optical Fibre
- ❖ Install a manageable and secured Wireless LAN unified with the Wired LAN, covering the entire workspace and allowing VLANs, PoE \*
- ❖ Supply and install a management platform for the entire unified WLAN and LAN
- ❖ Provide all equipment, materials, labour, and services not specifically mentioned or presented, which may be necessary to complete or perfect all parts of the installation. Ensure that they follow requirements stated or reasonably inferred by the contract documents
- ❖ System testing and report

## 5. Miscellaneous

**5.1 Inquiries:** Inquiries regarding specifications of this RFQ must be submitted in writing to the contact named below except for questions regarding the bid submission which may be oral. The deadline for written inquiries is March 15, 2018 @ 5:00 p.m. All inquiries must be addressed to: Email: [procurement@nexteinsteinstein.org](mailto:procurement@nexteinsteinstein.org)

After this RFQ has been released, no contact is permitted between the Vendor and AIMS, except for issues relating to this RFQ. Violation may result in the bid's rejection.

### 5.2 Schedule of Events:

Non-Mandatory on site visit..... March 12 2018 and March 13 2018, 3: 00p.m

Vendors Written Questions Submission Deadline..... 15 March 17 2018

Selection Notification .....March 20 2018, 11: 00a.m

## 6. Quotation Form (Annexe B):

The attached Quotation form needs to be completed and signed. Suppliers shall return the completed and signed Quotation form with their quotation

## 7. Labelling

Labelling shall conform to ANSI/TIA/EIA-606(A) standards. In addition, provide the following:

- a) Label each outlet with permanent self-adhesive label with minimum 3/16 in. high characters.
- b) Label each cable with permanent self-adhesive label with minimum, 1/8 in. high characters, in the following locations:
  - 1) Inside receptacle box at the work area.
  - 2) Behind the communication closet patch panel or punch block.
- c) Use labels on face of data patch panels. Provide facility assignment records in a protective cover at each telecommunications closet location that is specific to the facilities terminated therein.
- d) Use color-coded labels for each termination field that conforms to ANSI/TIA/EIA-606(A) standard colour codes for termination blocks.
- e) Mount termination blocks on color-coded backboards.
- f) Labels shall be machine-printed. Hand-lettered labels shall not be acceptable.
- g) Label cables, outlets, patch panels, and punch blocks with room number in which outlet is located, followed by a single letter suffix to indicate the outlet within room, i.e., S2107A, S2107B. Indicate riser cables by an R then pair or cable number.

## 8. Quality Assurance

- h) The contractor shall have worked satisfactorily for a minimum of five (5) years on systems of this type and size.
- i) Upon request by the engineer/designer, furnish a list of references with specific information regarding type of project and involvement in providing of equipment and systems.
- j) Equipment and materials of the type for which there are independent standard testing requirements, listings, and labels, shall be listed and labelled by the independent testing laboratory.

	<ul style="list-style-type: none"> <li>❖ Meet Restriction on Hazardous Substances in Electrical and Electronic Equipment (RoHS) directive</li> <li>❖ Access Control Lists (ACLs)</li> <li>❖ Layer 3 static routing</li> <li>❖ User authentication</li> <li>❖ Virtual local area networks</li> <li>❖ Fully rack-mountable using the included rack-mounting hardware</li> <li>❖ Configuration and monitoring from a standard web browser with a simplified management interface</li> </ul>
<p style="text-align: center;"><b>Switch PoE</b></p> <p>The switches must meet with the following general requirements: Core Switch, <b>Access switches with PoE , 10/100/1000 at each port</b> <b>Dlink, Dell, HP, Linksys, Alcatel</b></p>	<ul style="list-style-type: none"> <li>❖ Large switching capacity, high 10GigE port densities at the core</li> <li>❖ Advanced security access</li> <li>❖ Advanced QoS features (Prioritization, Filtering, Server Load Balancing, ...)</li> <li>❖ Wire-rate processing for IPv4/IPv6</li> <li>❖ Non-Blocking switch architecture</li> <li>❖ Support Ethernet Ring Protection (ERP)</li> <li>❖ Full support for unicast and multicast applications such as voice-over-video collaboration</li> <li>❖ Meet Restriction on Hazardous Substances in Electrical and Electronic Equipment (RoHS) directive</li> <li>❖ Access Control Lists (ACLs)</li> <li>❖ Layer 3 static routing</li> <li>❖ User authentication</li> <li>❖ Virtual local area networks</li> <li>❖ Fully rack-mountable using the included rack-mounting hardware</li> <li>❖ Configuration and monitoring from a standard web browser with a simplified management interface</li> </ul>

1. Vendors are requested to provide a per-cable price for installation of CAT 6a and 7 and multi-mode fiber network cable, necessary hardware and equipment at the Aims Rwanda Center (Former Alpha Palace Site)
2. Vendor MUST mention at least 3 reference sites of similar projects and the contact person
3. Installation shall include the following:
  - a. All Ethernet cabling should be certified CAT7; terminations to meet T568B standard, no runs to exceed 300 feet.
  - b. All cabling and above ceiling hardware and materials must be plenum-rated.
  - c. Backbone and Data Centre cabling to be 10 GBPS ready
  - d. A LAN administration rack to be located on each distribution area, with 10GBPS speed backbone connected to the Data Centre Switches located in the DATA Centre. Each rack and the IT equipment
  - e. All UPS-Power points to be clearly identifiable and labelled
  - f. All cable pathways shall be established by hooks and/or rings every four (4) feet, according to manufacturer and BISC1 standards for such pathways.
  - g. Industry standard cable management practices should also be followed in the wiring closets and at the racks to provide a neat, organized and accessible installation.

**ANNEX A:**

**AUDIT REPORT FOR THE WORKSTATION TO BE WIRED and connected to Voice, Data and Video port with Ethernet 10/100/1000/10000 Mbps**

Area	UPS. outlets	Data Points	Wi Fi AP	Points
<b>1. Office with QLA office and Research Center</b>				
1Post Doctors and Visitors (5)	6 ups sockets	6 sockets(12data)	1	
2Post Doctors and Visitors (5)	4 ups sockets	4 sockets(8data)		
Admin and QLA Coordinator (4)	4 ups sockets	4 sockets(8data)		
Principal Investigators (6) {5rooms}	3 sockets per room	3 sockets(6data) per rooms		
Discussion Corner (8)	3 ups sockets	3 sockets(6data)		
Open space	8 ups sockets	8 sockets(16data)	1	
MRes+Phd students	20 ups sockets	15 sockets(30data)	1	
Collabo (on front door of each principal investigator)	1 ups sockets on Each door (total 5 ups sockets)	1 sockets of 2 data on each door (total 5 sockets(10data)		
Entrance				
Lounge			1	
Server Room	10 ups sockets	10 sockets		
<b>TOTAL OUTLETS FOR THE RACK No 1</b>	<b>60</b>	<b>106</b>	<b>4</b>	

**ANNEXE B: RFQ – Quotation Form**

Quotation for must be completed in English, signed and returned to AIMS prior to the indicated closing date/time. The quotation must be in accordance with the instructions contained in this request.

The undersigned, having read the term and conditions of Quotation No AIMS/RFQ/18/004 set out in the attached document, hereby offers to supply the services specified in the RFQ at the price quoted, in accordance with any specifications stated and subject term to the Term and Condition set out or specified in the document.

**Signature** \_\_\_\_\_

**Date** \_\_\_\_\_

**Name and Title: Company** \_\_\_\_\_

**Address:** \_\_\_\_\_

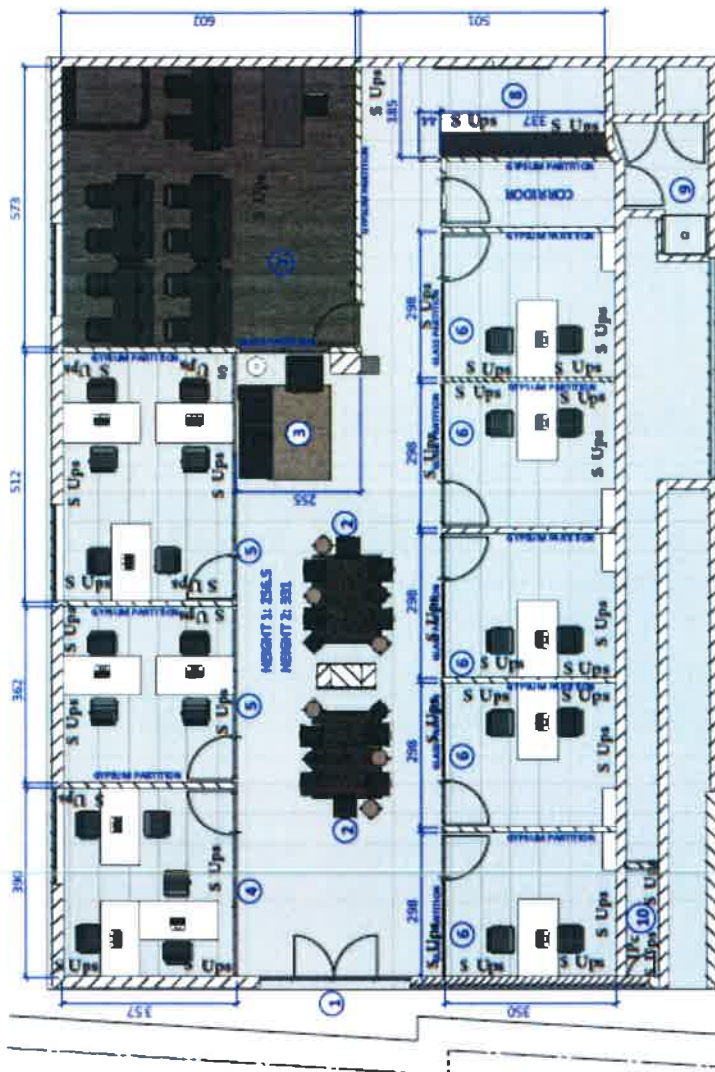
**Tel No:** \_\_\_\_\_

**Email:** \_\_\_\_\_

**Amount Offer** \_\_\_\_\_

**Payment term 30 day accepted**

## OFFICE BLUEPRINT – ANNEXE D



- 1. ENTRANCE
- 2. COLLABO
- 3. LOUNGE
- 4. ADMINS + QLA COORDINATOR
- 5. POSTSDOCS + VISITORS
- 6. PRINCIPAL INVESTIGATORS
- 7. MBAs +PHD STUDENTS
- 8. DISCUSSION CORNER
- 9. TOILETS
- 10. SERVER ROOM
- 11. OPEN WORK SPACE

-S = Single Panel Outlet  
 -UPS = Uninterruptible Power Supply  
 -IPc = IP Camera

## FLOOR PLAN

