

# CALL FOR DONATIONS IN SOLIDARITY AND SUPPORT **FOR USJ'S INFRASTRUCTURE AND EQUIPMENT**



IN THE FRAMEWORK OF THE  
**“DONATE TO REBUILD” CAMPAIGN**

Within the framework of the “Donate to Rebuild” Campaign launched under the USJ-HDF Emergency and Solidarity Fund in the wake of the devastating Beirut Port explosion on August 4, 2020, and while solidarity outpourings have come from all over the world to help us rebuild our 5 significantly devastated campuses and heritage buildings, the damage and needs of our University are far from being resolved.

Upgrading the **IT infrastructure**, the **equipment** of our Faculties of Engineering (ESIB) and Science (FS), the **simulation center** of the Faculty of Medicine, the renewal of **subscriptions to electronic journals** are essential in order for USJ to pursue its mission and remain a leading institution in terms of knowledge and technology.

Two years after the onset of the unprecedented economic crisis that has hit our country, the living conditions of our students have further deteriorated, and a great deal of insecurity is perceptible among far too many of them. It is therefore essential that we seek your help to support them not only financially through scholarships, but also by demonstrating “digital solidarity” by funding the purchase of computers allowing them to carry on with their studies regardless of their financial situation.

## Your solidarity is and remains our greatest strength!

### Figures summarizing current needs

Project	Document	Description	Cost
Equipment for the Faculty of Engineering	Annex 1	Providing students with practical knowledge on different analytical methods and mechanisms by means of purchasing equipment for the different laboratories of the Faculty of Engineering: penetrometer, multipurpose reactor, heat units, etc.	EUR 246 375
Equipment for the Faculty of Science	Annex 2	Enabling faculty researchers to carry out their scientific and scholarly work by means of purchasing equipment for the Faculty of Science: LC-MS instrument, chromatography, ICP-MS instrument, microbalance, probe, software, etc.	EUR 888 000
Upgrading IT infrastructure	Annex 3	Replacing aging computers in all faculties and departments by means of purchasing 150 notebooks and 150 desktops.	EUR 331 858
Renewal of subscriptions to electronic journals	Annex 4	Providing students, faculty and researchers with access to scientific and academic resources by means of renewing the essential teaching and research bundle (27 subscriptions) and the research bundle (7 subscriptions).	EUR 442 695
Fitting the simulation center of the Faculty of Medicine	Annex 5	Training healthcare professionals to provide the most effective and efficient patient care through multiple integrated technologies	EUR 898 797
	Attachment	Management system Audiovisual Simulators	Estimate: EUR 1 500 000
<b>Total</b>			<b>EUR 4 307 725</b>

**We thank you in advance for your support.**



Contact us:

[www.usj.edu.lb/idonate](http://www.usj.edu.lb/idonate)

Fondation USJ

Ms. Cynthia Ghobril Andréa, Director of the Fondation USJ - Cell: 961-3-300335

✉ [fondationusj@usj.edu.lb](mailto:fondationusj@usj.edu.lb) | ☎ +961.1.421105 | +961.1.421151

[www.usj.edu.lb/fondationusj](http://www.usj.edu.lb/fondationusj)

## Annex 1

# EQUIPMENT NEEDS FOR THE FACULTY OF ENGINEERING

Lebanon has been undergoing an unprecedented economic and financial crisis for well over two years and Saint Joseph University of Beirut has certainly not been spared.

The mission of the University has three main dimensions: research through the generation of new knowledge, teaching through the transfer of knowledge, and service through using knowledge to foster civic engagement.

110 years after its foundation, the School of Engineering in Beirut (ESIB) remains a beacon of scientific excellence and of nurturing professional elites in the field of engineering locally, regionally, and internationally.

ESIB has successfully reinvented itself, not only by receiving the ABET accreditation, but also by constantly responding to the laws of the market, which are rapidly evolving. The new specialities are a good example of this responsiveness to demand. By holding on to its achievements, its work methodology and its objectives, ESIB has managed to remain a humanist school of excellence, which continues to educate the finest engineers for both present and future generations.

To remain a knowledge-creating university, we must fund the equipment for the various laboratories of the Faculty of Engineering.

### •Total projects to be funded

Equipement	Cost
1. Equipment for the Laboratory of Oil Analysis	EUR 48 500
2. Equipment for the Laboratory of Process Engineering	EUR 115 658
3. Equipment for the Laboratory of Thermodynamics	EUR 42 000
4. Spectrophotometer	USD 17 385 or EUR 15 385
5. Equipment for the Laboratory of Woodworking	USD 28 060 or EUR 24 832
<b>Total</b>	<b>EUR 246 375</b>

### Details below

#### 1. Equipment for the Laboratory of Oil Analysis

Equipement	Cost
1 Penetrometer	<b>EUR 48 500</b>
1 Cloud and Pour Point Test Equipment (CPP)	
1 Wickbold oxy-hydrogen burner	

#### 2. Equipment for the Laboratory of Process Engineering

Equipement	Cost
1 Multipurpose reactor	<b>EUR 115 658</b>
1 Atomizer	

### 3. Equipment for the Laboratory of Thermodynamics

Equipement	Cost
1 Heat transfer equipment for the study of conduction exchanges	<b>EUR 42 000</b>
1 Heat transfer equipment for the study of convection and radiation exchanges	
1 Heat transfer equipment for the study of combined exchanges	
1 Physical properties of materials measuring device	

### 4. Spectrophotometer

Equipement	Cost
1 Spectrophotometer UV/Vis	<b>USD 17 385</b>

### 5. Equipment for the Laboratory of Woodworking

<b>Printing and Scanning</b>	
Large format printer	USD 7 000
Large format scanner	USD 6 000
Laser cutting machine	USD 5 000
3D Printer	USD 1 500
<b>Woodshop Machines</b>	
Circular saw	USD 350
Table saw	USD 1 000
Jig saw	USD 250
Power drills (with batteries)	USD 250
Sanding machine	USD 450
Router with table	USD 350
Dust blower	USD 150
Working tables	USD 1 500
<b>WoodShop Hand Tools</b>	
Bench planes (2)	USD 200
Clamps (8)	USD 100
Rulers (2 sets)	USD 50
Tape measures (3)	USD 100
Hand saw (2)	USD 60
Hammer (2)	USD 100
Chisels (set)	USD 50
Glues (3)	USD 100
Sandpapers	USD 20
<b>Storage</b>	
Storage cabinets (2)	USD 2 000
Storage shelves (2)	USD 1 000
<b>Safety Equipments</b>	
Cut resistant gloves (3 pairs)	USD 100
Protection glasses (3 pairs)	USD 100
Dust masks (2)	USD 100
Hearing protection gear (2 pairs)	USD 100
Aprons (2)	USD 80
<b>Total</b>	<b>USD 28 060</b>

## Annex 2

### EQUIPMENT NEEDS FOR THE FACULTY OF SCIENCE

Lebanon has been undergoing an unprecedented economic and financial crisis for well over two years and Saint Joseph University of Beirut has certainly not been spared.

The mission of the University has three main dimensions: research through the generation of new knowledge, teaching through the transfer of knowledge, and service through using knowledge to foster civic engagement.

Established in 1997, the Faculty of Science is dedicated to graduating researchers in basic and applied sciences as well as multidisciplinary scientific professionals who will be able to enter the job market by meeting the requirements and needs of this market. To achieve its objectives, it has implemented a strategy to become a scientific platform for industrial and commercial companies, besides its role of training French-speaking high school teachers in basic sciences: mathematics, physics, chemistry and life and earth sciences - biochemistry.

To remain a knowledge-creating university, we must fund the following equipment for the Faculty of Science.

#### Summary of current equipment needs

Equipement	Cost
Project 1: Purchasing a Liquid Chromatography Mass Spectrometry (LC-MS) instrument	EUR 350 000
Project 2: Purchasing an Ion Chromatography (IC) instrument for anions, cations, and sugars	EUR 175 000
Project 3: Purchasing an Inductively Coupled Plasma Mass Spectrometry (ICP-MS) instrument	EUR 160 000
Project 4: Purchasing a microbalance	EUR 18 000
Project 5: Purchasing a Bruker 400 MHz NMR spectrometer probe	EUR 100 000
Project 6: Purchasing the Bruker 400 MHz NMR spectrometer probe software	EUR 10 000
Project to install photovoltaic panels at the Faculty of Science	EUR 75 000
<b>Total</b>	<b>EUR 888 000</b>

## UPGRADING THE IT INFRASTRUCTURE

Saint Joseph University of Beirut has an extensive IT infrastructure to support its activities. It includes two data centers, a wired and wireless network infrastructure and 2640 computers (desktops and notebooks).

Fixed computers are available in all the University's laboratories and staff use fixed and portable computers as needed. Purchasing and replacing computers is done upon request and as needed by the institutions. The goal is to renew the equipment every 5 years.

The economic crisis that hit Lebanon in 2019 and the lockdown imposed by the pandemic breached this renewal cycle, and we are currently 3 years behind. The University has ensured infrastructure renewal with plans to replace the 865 Wifi access points (by March 2022), the core switch (by June 2022) and the data centers (two 390TeraByte 3PAR storage systems, and 12 HP Proserv G9 servers by July 2022).

Computer upgrading has become a key priority. The computers consist of the following:

- 806 desktops dating from 2013, with 720 deployed in USJ labs,
- 181 notebooks dating from 2014 with core i3 and core i5 processors,
- 192 notebooks dated 2016 with code i3 and core i5 processors,
- 256 notebooks dating back to 2019.

Renewing the 987 computers dating from 2013 and 2014 is our priority, in particular the 720 computers deployed in our University's laboratories. This aging equipment is no longer reliable and even obsolete, which is detrimental to the reputation of USJ.

### Summary of IT infrastructure needs

Equipement	Cost
150 notebooks	USD 166 500
150 desktops	USD 208 500
<b>Total</b>	<b>USD 375 000 or EUR 331 858</b>



Details below

Messrs.	Universite Saint Joseph
Project	Notebooks

Qty	P/N	Description	Unit Price	Total Price
<b>Notebooks</b>				
150		HP Probook 450 G8	1,110	166,500
		HP IDS UMA Shared core i7-1165G7		
		Windows 11		
		Integrated HD 720p DualAryMic Webcam		
		15.6 inch HD (1366x768) Anti-Glare LED SVA 250 for HD Webcam		
		Narrow Bezel bent		
		16GB DDR4 3200		
		512GB PCIe NVMe Value Solid State Drive		
		Realtek ac 2x2 +Bluetooth 5 WW		
		No WWAN		
		3 Cell 45 WHr Long Life		
		45 Watt Smart nPFC Right Angle AC Adapter		
		C5 1.0m Sticker Conventional Power Cord		
		Clickpad with numeric keypad spill-resistant		
		Electronic Energy Star labeling (EStar)		
		Electronic TCO Certified labeling		
		3 year Notebook Hardware Support		
		<b>Sub Total</b>		<b>166,500</b>

Messrs.	Universite Saint Joseph
Project	PCs and Monitors

Qty	P/N	Description	Unit Price	Total Price
<b>PCs and Monitors</b>				
150		HP ProDesk 600 G6 Microtower	1,390	208,500
		HP ProDesk 600 MTL Platinum 260W Chassis		
		Intel Core i7 10700 2.9GHz 8C 65W CPU		
		Windows 11 Home 64		
		16GB DDR4 2933 DIMM Memory		
		512GB M.2 2280 PCIe NVMe Solid State Drive		
		HP USB 320K Keyboard		
		HP Black 125 Wired Mouse		
		No 3rd Port		
		No Intel vPro		
		DVD-Writer ODD		
		3 years Warranty		
		HP E24i G4 WUXGA Monitor		
		<b>Sub Total</b>		<b>208,500</b>

<b>Total in US\$ excluding VAT</b>			<b>208,500</b>
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## RENEWAL OF SUBSCRIPTIONS TO ELECTRONIC JOURNALS

The Saint Joseph University Library houses a rich multidisciplinary collection of over one million books and journals available to 11,500 students, 2,500 teachers and researchers on all the University's campuses. Search engines optimize the visibility of the collections, the dissemination of information and publications on site or remotely.

E-resources at the USJ Library include research databases, online journals, and multidisciplinary e-book collections that can be accessed both on-site and remotely. The selection of e-resources falls under the responsibility of the campus librarians in collaboration with faculty. The Library is dedicated to supporting teaching and research activities at the University. This involves acquiring or maintaining subscriptions to necessary and vital resources, based on an annual budget granted by the Library Committee. For reference, the budget for e-resources for the 2018-2019 academic year reached a total of USD 670,000. E-resources are regularly assessed based on the following criteria: cost, content uniqueness, required accreditation, user-friendly interface, accessibility, scholarly value for cost, search functionality, and potential relevance to the broadest range of our students and faculty. These resources are an ever-present financial commitment that increases every year as inflation and the devaluation of the Lebanese pound increase. Through this process, e-resources can be either added or deleted annually. We are committed more than ever to providing access to information through scientific resources and important references. We cannot afford that to cease.

Carrying on the mission of USJ is an act of resilience, and your support will help us overcome financial woes and strengthen our academic offerings and research centers, all to serve the community.

### Summary of bundle needs

Bundles	Cost
Essential and valuable teaching and research bundles	USD 287 245
Bundles for research at USJ	USD 213 000
<b>Total</b>	<b>USD 500 245 or EUR 442 695</b>

### Details below

Electronic Journals	Faculty	USD
<b>Essential and valuable teaching and research bundles</b>		
Access Medicine	FM	13 688
Al-Mustachar	BSS	70
American Family Physician/Family Practice	FM	500
CAIRN	USJ	11 343
Choix	USJ	393
Clinical Key	FM	18 030
Dalloz	FDSP	4 797
EBSCO (Cinahl, Dentistry, medline, psycharticles, business, EconLit, Academic search)	USJ	33 968
EM-Premium	FM	10 000
EZ-PROXY	Rectorate	647
IDREL	FDSP	300
Impact Factor Clarivate	FM	3 000
Journal Officiel Libanais	BSS	40



JSTOR	FSE	1 530
Kluwer arbitration	FDSP	2 835
Lexis 360	FDSP	7 500
Lextenso	FDSP	4 000
Manual of Nutrition (Nutrition care/Pediatric Nutrition/Sports nutrition)	FP	500
Portal Deepknowledge E-Libraries	FM	800
Sader Publishers	FDSP	310
Scopus	Rectorate	13 271
StatDx Primer	FM/HDF	5 800
Techniques de l'Ingénieur	ESIB	14 000
Turnitin (for plagiarism)		7 860
UpToDate	FM	39 063
ASCE	ESIB	15 000
IEEE	ESIB	78 000
		<b>287 245</b>
<b>Bundles for research at USJ</b>		
Elsevier	CSM	80 000
Emerald	USJ	12 000
Lippincott Williams & Wilkins	CSM	47 000
Sage Publications	USJ	13 000
Springer	USJ	23 000
Taylor & Francis	USJ	18 000
Wiley	USJ	20 000
		<b>213 000</b>

## Annex 5

### FITTING THE SIMULATION CENTER OF THE FACULTY OF MEDICINE

The **Faculty of Medicine of Saint Joseph University of Beirut (FM/USJ)**, founded in 1883, is a teaching and research institution that is governed by the Charter and Statutes of Saint Joseph University of Beirut. Its activities are aimed at meeting the healthcare needs of the people it serves in Lebanon and in the Near and Middle East regions.

FM/USJ seeks to fulfill the cultural and practical mission of any medical school. Through its teaching, it offers students a medical education based on excellence and innovation, enabling them to acquire the knowledge and skills they will need to successfully perform in their society. FM/USJ trains its graduates to meet the major challenges they will face and seeks to promote their professional growth as scientifically minded, creative and inquisitive physicians with a solid scientific background and a strong human perspective. It promotes holistic healthcare. The institutional objectives of the Faculty of Medicine include: seven-year initial medical training, postgraduate medical training (specialization), clinical and hospital environment, research and researcher training, continuing medical and professional education, and community health. This commitment is integrated into a more fundamental service, which is the cultural mission of the Faculty, which places it at the service of the advancement of people.

Like any Faculty, FM/USJ cannot be limited to simply disseminating acquired medical knowledge and mastering skills. It is a stimulating environment for medical and scientific research, responding to national and regional needs. This research is necessary for the training of students and contributes to the lifelong learning of faculty. It encompasses basic biomedical research, clinical, behavioral and social studies. FM/USJ carries out its teaching and research tasks from the perspective of the advancement of people. Beyond scientific knowledge and technique mastery, the Faculty is interested in the fundamental questions which arise from scientific and technological progress, and which are of concern to every human being regarding the ultimate meaning of life. This is why training in medical ethics and bioethics goes hand in hand with fundamental learning.

The Simulation Center at the USJ Faculty of Medicine will be essential in training healthcare professionals to provide the most effective and efficient care to patients. Several seamlessly integrated technologies will enable staff and faculty to optimize their performance.

The software management strategy for the Simulation Center must be flexible, scalable and easily accessible to a wide range of users. Ease of access, ease of use, and back-end data collection for progress monitoring will help ensure the success of the Simulation Center. This document breaks down the specifications for software, hardware, and audio-visual equipment. It should be noted that the specifications are found across a number of technologies. Hardware components, from specific models and manufacturers, are chosen for their documented interoperability with other specified technology components, and their ability to connect to various simulation technologies, their ability to connect to specific medical devices, other facility-specific technologies, and their technical compatibility with the designed system.

Summary of the simulation center needs

Management system and Audio Visual Total - Economy Package

<b>Management TOTAL</b>	<b>\$ 489,720</b>
<b>AudioVisual TOTAL</b>	<b>\$ 525,921</b>
<b>TOTAL</b>	<b>\$ 1,015,641</b>

Or EUR 898 797

Details below

Audio Visual - Economy Package

<b>Room Description</b>	<b>Total Price</b>
ICU	\$14,740.95
ER	\$14,740.95
MultiPurpose HIFI	\$14,740.95
Ambulance	\$7,740.95
ICU ER MPR AMB Control Room	\$18,388.64
LDR	\$14,740.95
NICU	\$14,740.95
LDR NICU Control Room	\$12,259.10
Debrief Room 01	\$23,681.09
Debrief Room 02	\$0.00
Cath Lab	\$14,740.95
Cath Lab Scrub area	\$5,500.00
Cath Lab Ultrasound Control	\$7,129.55
OR	\$22,240.95
OR Control Room	\$12,259.10
2 Recovery, Prep Sim Rooms	\$7,240.95
Ante Room	\$6,500.00
3rd Floor OSCE Rooms	\$135,000.00
OSCE Hallways	\$13,174.62
OSCE Proctor Room	\$18,481.89
Debrief Room 03	\$23,681.09
Debrief Room 04	\$0.00
VR Room	\$7,240.95
<b>AV Equipment</b>	<b>\$ 408,965</b>
<b>AV Installation</b>	<b>\$ 58,456</b>
<b>Switches</b>	<b>\$ 58,500</b>
<b>Total</b>	<b>\$ 525,921</b>

Management System - Economy Package

Number of Beds	Room Description	Description	QTY	Unit Price	Total Price
1	F2 - Operating Room	Management System	2	\$ 23,000	\$ 46,000
1	F2 - Ante Room	Management System	0	\$ -	\$ -
2	F2 - Recovery Room	Management System	0	\$ -	\$ -
1	F2 - Patient Prep Room	Management System	0	\$ -	\$ -
2	F2 - Debriefing Room	Ultraportable system	1	\$ 19,000	\$ 19,000
2	F2 - Labor & Delivery	Management System	1	\$ 23,000	\$ 23,000
2	F2 - NICU/PICU Room	Management System	1	\$ 23,000	\$ 23,000
1	F2 - Ambulance Room	Ultraportable system	1	\$ 19,000	\$ 19,000
2	F2 - Emergency Room	Management System	1	\$ 23,000	\$ 23,000
2	F2 - ICU Room	Management System	1	\$ 23,000	\$ 23,000
1	F2 - Multipurpose HIFI	Management System	1	\$ 23,000	\$ 23,000
1	F2 - Cath-Lab	Management System	1	\$ 23,000	\$ 23,000
1	F2 - Cath lab Scrub area	Management System	0	\$ -	\$ -
18	F3 - OSCE 1-18	Management System	18	\$ 23,000	\$ 414,000
2	F3 - Debriefing Room	Ultraportable system	0	\$ -	\$ -
2	F3 - Virtual Reality	Ultraportable system	0	\$ -	\$ -
<b>Total</b>			<b>28</b>		<b>\$ 636,000</b>
<b>23% Discount provided upon direct purchase</b>					<b>\$ 489,720</b>

Management System - Economy Package

<b>Supervision for AudioVisual Installation</b>			<b>FOC</b>
<b>Audiovisual integration, Software Installation and Training</b>			<b>FOC</b>
<b>TOTAL</b>			<b>\$ 489,720</b>