



AMERICAN ASSOCIATES
Ben-Gurion University
of the Negev

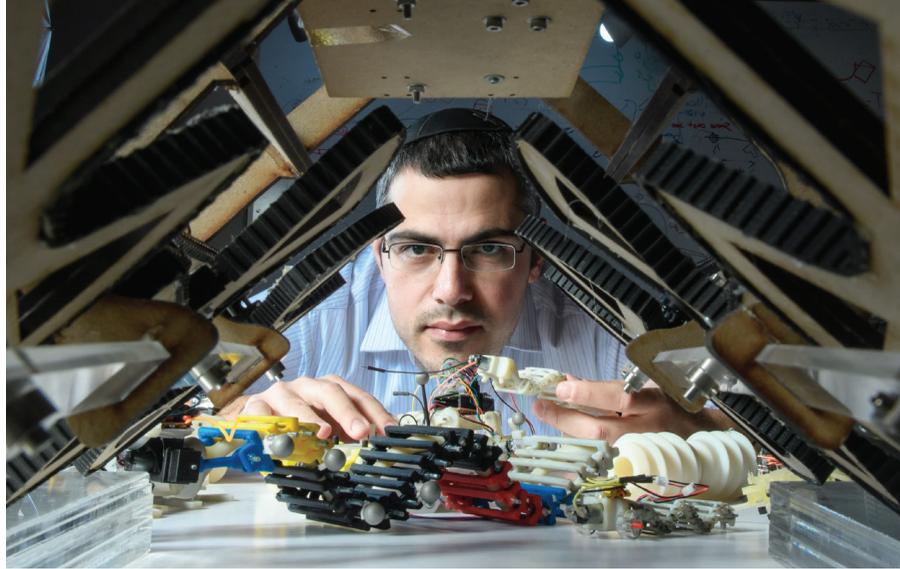
Diane and Guilford Glazer
Institute for Homeland Security Building
BEN-GURION UNIVERSITY OF THE NEGEV



Securing and Safeguarding the Future of Israel







THE PURPOSE PROTECTING THE STATE OF ISRAEL

For Israelis, homeland security is a critical need that requires securing all borders on land, sea and air. Direct attacks over the course of the past decade, including missiles targeting Negev communities, have created the need for adequate defense measures that can effectively protect and secure Israel.

Empowered by its scientific expertise, Ben-Gurion University of the Negev (BGU) has taken a leadership role in meeting the homeland security needs of Israel and its allies. With the move of the Israel Defense Forces' elite units to a high-tech campus adjacent to BGU's Marcus Family Campus, the potential for research exchange and practical implementation has never been greater.

BGU's new Diane and Guilford Glazer Institute for Homeland Security Building is Israel's direct path to **A STRONGER AND SAFER HOMELAND.**

THE VISION

World-Class Researchers.
Interdisciplinary Solutions.
Urgency of Purpose.

ALL UNDER ONE ROOF.

Currently, BGU's Homeland Security institute is a cross-campus collaboration without a home to call its own. BGU has long dreamed of creating a physical entity that gathers together under one roof the brilliant scientists, researchers and technology experts who can create the best conditions for Israel's strongest defense.

The Diane and Guilford Glazer Institute for Homeland Security Building will be the first research building constructed on BGU's new North Campus, a 57-acre area that will double BGU's footprint in Beer-Sheva.

IMAGINE what will happen when Israel's best researchers in structural engineering, quantum physics, remote sensing, electro-optics, and more get together ...

AND DREAM BIG.



"The triangle created by BGU, the IDF and industry at the Advanced Technologies Park is creating a unique ecosystem, making Beer-Sheva and the Negev the place to be in Israel now and in the future."

PROF. DAN BLUMBERG

BGU's Vice President for Industrial and Regional Development
Director, Homeland Security Institute

RENDERINGS OF BGU'S NEW NORTH CAMPUS



The Diane and Guilford Glazer Institute for Homeland Security Building

THE NEED

A HOME FOR BGU'S HOMELAND SECURITY INSTITUTE

Equipped with the latest, most advanced research labs and cutting-edge equipment, the new Diane and Guilford Glazer Institute for Homeland Security Building will include:



QUANTUM SCIENCE RESEARCH CENTER

An 800-sq. meter center featuring eight electro-optics labs for developing visible-light cameras, infrared sensors, lasers, lenses, and other optical technologies; a multi-disciplinary research room; two offices; and a storage room.



AUTONOMOUS VEHICLES RESEARCH CENTER

A customized 500-sq. meter indoor space (with an adjoining outdoor area) supporting five robotics laboratories, three workstations, and a special operating and test area.



ELECTRO-OPTICS RESEARCH CENTER

A 500-sq. meter complex with five customized electro-optics laboratories for developing peacetime and wartime equipment.



ROOFTOP REMOTE SENSING FACILITY

A 3,000-sq. meter rooftop containing some of the world's most advanced outdoor remote sensing equipment, including specialized optical instrumentation and antennas that communicate with research satellites.



REMOTE SENSING RESEARCH CENTER

A 450-sq. meter center with six separate laboratories designated for interdisciplinary research.



SPECIALIZED MICROSCOPY UNIT

A 350-sq. meter space featuring homeland security’s most advanced microscopy equipment, including a state-of-the-art scanning/transmission electron microscope (S/TEM), three TEM rooms, three workstations, and three technical support systems.



CLEAN ROOMS COMPLEX

An 800-sq. meter complex comprised of seven multidisciplinary cleanrooms—a facility well equipped for research, processing and development, materials characterization, fabrication, and other processes. Within these highly controlled environments, pollutants and airborne particles are minimized through extensive filtration systems.



DRY LABORATORIES COMPLEX

Four interdisciplinary dry labs (50-sq. meters each) designed for electronics, computers, mechanical parts, and instrumentation that require precise control of humidity, dust and temperature.



WET LABORATORIES COMPLEX

Twelve interdisciplinary wet labs designed to handle chemicals, drugs, biological materials, and other substances that require specialized ventilation and piped utilities, such as emergency showers and eyewash stations.

CONSTRUCTION TIMELINE

START (YEAR 1)

FINISH (YEAR 5)



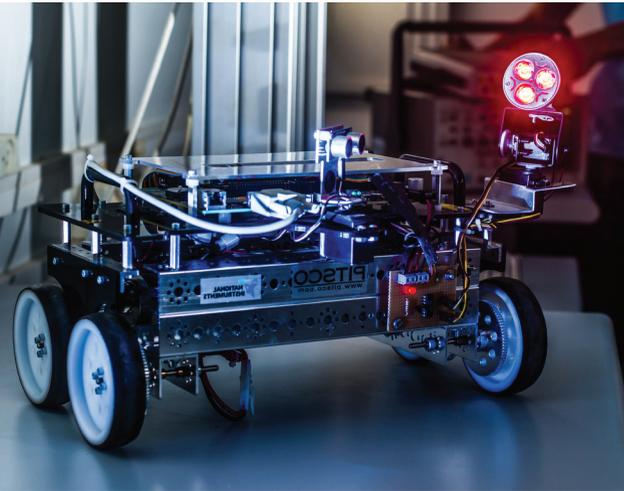
Reflecting its scope, the building is projected to be completed in five years by a leading Israeli firm that specializes in complex construction.

THE DELIVERABLES INSIDE A BGU DEFENSE LAB

BGU's game-changing technology experts and homeland security researchers are already creating 21st-century "smart" tools that can empower the IDF to carry out operations and surveillance at the highest possible level—all the while minimizing casualties.

Among BGU's latest innovations are:

- **LIGHT BLADE** This laser defense system eliminates airborne threats out of the sky at a range of up to two kilometers [1.24 miles] before they can enter Israeli territory.
- **"HYDRO CAMEL"** The first of its kind, this 84-lb. mini autonomous submarine can plan missions, avoid obstacles, and make decisions without a human operator.
- **MINI-COPTER DRONE** Considered a breakthrough in the field, this top-grade unmanned aerial vehicle (UAV) is able to carry up to 200 pounds of cargo, fly exceedingly low without being detected by the naked eye, and can be controlled from afar.
- **AUTONOMOUS ROBOTS AND VEHICLES** protect borders, navigate tunnels and climb walls while keeping soldiers out of harm's way.
- **SPEEDY SMART ARMORED TANK** can travel manned or unmanned and has the ability to remain undetected.
- **DRONE SNIPER**, remotely controlled, shoots small arms fire from the air.
- **SMART RIFLE** discharges only after locking onto target.
- **"SKY EYE" DRONE** autonomously scans and documents a six-mile area.
- **ATTACK-PROOF BUILDING MATERIALS** that withstand assault, including missile-proof glass.



TOP SECRET

NOTE:
Many technologies and tools are presently being developed in collaboration with the Israeli and U.S. defense administrations under the strictest confidentiality.

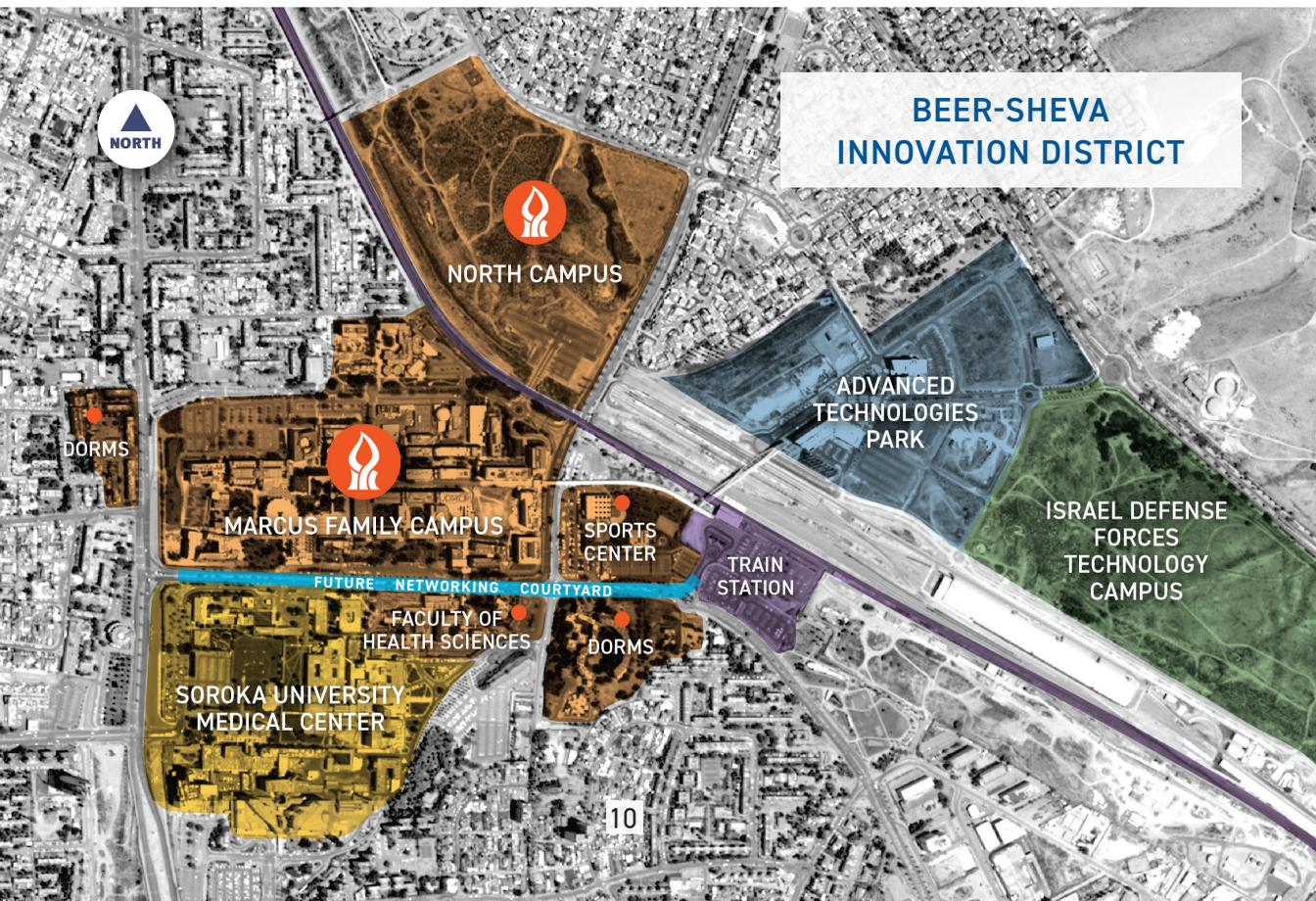
BE A PART OF ISRAEL'S TOMORROW BY SECURING ITS FUTURE TODAY

INVITATION TO PARTNER

To ensure that the State of Israel maintains and strengthens its vital security status through BGU's expertise, a wide range of naming options are available—from \$250,000 to \$5 million.

By contributing to BGU's Diane and Guilford Glazer Institute for Homeland Security Building you are helping secure Israel's future for generations to come.

THE FUTURE IS IN YOUR HANDS.





NAMING OPPORTUNITIES

- Quantum Science Research Center
- Autonomous Vehicles Research Center
- Clean Rooms Complex
- Electro-Optics Research Center
- Rooftop Remote Sensing Facility
- 3Remote Sensing Research Center
- Specialized Microscopy Unit
- Homeland Security Institute Lobby [SOLD]
- Homeland Security Institute Auditorium
- Dry Laboratories Complex
- Wet Laboratories Complex
- Seminar Rooms
- Individual labs

For more information, contact your local AABGU representative, email info@aabgu.org or call 646-452-3689.

NOTE: *Building projects of this nature are subject to change during the course of planning, design and even construction due to a variety of possible contingencies. Please contact us to confirm needs and available naming opportunities.*



“It’s not enough to be up to date, you have to be up to tomorrow.”

— DAVID BEN-GURION

www.aabgu.org/homeland

