The National Cyber Security Research Center Program

The academia is a key pillar of Israel's thriving cyber security ecosystem, as in the long term state-of-the-art research is essential to sustain an innovative industry with global leadership. In order to fulfill this vision, the na
tional cyber directorate established six research centers as joint ventures with leading universities.
These research centers is fostering a critical mass of multi-disciplinary research's and truly comprehensive solutions, while each focuses on different fields of cyber security, leveraging existing capabilities to advance new groundbreaking themes.
The national cyber directorate invites partners from industry, academia and governments to collaborate with these research centers and harness Israel's excellent R&D environment.

Haifa university - The Center for Cyber Law & Policy (CCLP)

The Center seeks to develop the academic research necessary to inform public policy while addressing the challenges of activities in cyberspace and the digital era. Taking an interdisciplinary approach to law and policy, CCLP integrates legal research, computer science, data science, social science and innovative technologies to develop a new "toolkit" for policymaking while also addressing governance and national security,
The substantial impact of the CCLP's work on legal and policy developments results from its cutting-edge research and expertise, strategic partnerships across sectors and institutions, and the unique multi-disciplinary and multi-cultural approach that the University of Haifa embodies
Professor Niva Elkin-Koren leads the center
http://cyber.haifa.ac.il/

Technion - Hiroshi Fujiwara Cyber Security Research Center

The Center concentrates on the technological and scientific areas of computer and cyber security, bringing together researchers from all areas of computing and from a wide range of faculties. With over 65 faculty members, and many graduate students, engineers and research staff, our goal is to be a major player in securing the current digital world. Recent success examples include 1) Breaking Intel's SGX via foreshadow attack, 2) Breaking the Bluetooth pairing, and 3) Using Microsoft's Cortana virtual assistant to break into locked computers ("Hey Cortana, please remove my files"). Other research topics include hardware, software, OS, network and cloud security, IoT, cryptology, smart devices and smart transportation, machine learning for security, computer vision for security, side-channel-attacks, and more. The center is led by Professor Eli Biham.
http://cyber.technion.ac.il/

Tel-aviv university –The Blavatnik Interdisciplinary Cyber Research Center (ICRC)

Tel Aviv University (TAU) is Israel's largest and most comprehensive institution of research and higher learning with over 30,000 students studying in nine faculties and over 125 schools and departments across the spectrum of sciences, humanities and the arts. Almost half of the cohort are graduate students. Situated in Israel's economic and technological capital, TAU shares Tel Aviv's unshakable spirit of innovation and openness.
The Blavatnik ICRC is the first and largest institutionalized Israeli government-academia cooperation in cyber-related research, inaugurated in September 2014 by Prime Minister Benjamin Netanyahu at TAU's 4th Annual Cybersecurity Conference. Bringing together 50 TAU faculty members and more than 200 cyber researchers

from different disciplines, the Blavatnik ICRC epitomizes interdisciplinary research across TAU's faculties, departments and schools.
Professor Prof. Isaac Ben-Israel leads the center
https://icrc.tau.ac.il/home

Bar-ilan university - BIU Research Center in Applied Cryptography and Cyber Security

A Center of Excellence in Applied Cryptography, focusing on three research areas : Secure Multiparty Computation and advanced Cryptographic Schemes with novel applications to preserve Data Privacy, Cryptanalysis and ciphers for IOT Security, and the Robustness, Privacy and Security of Machine Learning. BIU has prominent research groups in these areas and utilizes their established strengths to address cyber threats.
Prof. Yehuda Lindell leads the center
https://cyber.biu.ac.il/

Hebrew university - HUJI Cyber security Research Center (H-CSRC)

The members of the Cyber Security Research center at the Hebrew University belongs to the School of Computer Science and Engineering and to the Faculty of Law.
The school of computer science and engineering has always played a major role in all aspect of securing the internet, securing the robustness, fault tolerance and machine learning. Research topic include: security and cryptography, secure network protocols, faulty identification and zero day attacks. Robustness of large scale distributed system recovery, machine learning techniques to identify threats and suspicious behaviors.

The Cyber Law Program is an integral part of the Hebrew University's Cyber Security Research Center, which brings together scholars, research fellows and doctoral students from the Faculty of Law and the Benin School of Computer Science and Engineering to pursue groundbreaking academic research that creates knowledge and establishes collaboration among researchers, human rights organizations, government authorities, industry and the public at large. The Cyber Law Program uses truly inter-disciplinary methods to study the prevention and regulation of cyber threats and related law enforcement challenges. The Program focuses on cyber security from legal and criminological perspectives, and its researchers conduct research in diverse fields: regulation, legal accountability, crime prevention, promoting human rights, and averting cyber-attacks and cyber-terrorism. Alongside its research activities, the Cyber Law Program is seeking to develop projects that educate students and the wider community in cyber security.

Professor Danny Dolev leads the center, and the Cyber Law Program is led by Professor Yuval Shany.

https://csrcl.huji.ac.il/

Ben-gurion university - Cyber@BGU

Over the past 20 years, Ben-Gurion University has developed core competencies in a wide range of fields related to information security. BGU was the first university in Israel to introduce cyber study tracks for undergraduate and graduate students, attracting the best and brightest students and researchers from around the world.

Recognizing these strengths, BGU has established "Cyber@BGU" - a one-stop-shop for accessing the range of BGU's experience and expertise in the field. It coordinates the range of cybersecurity activities that take place in collaboration with government and industry. Today, Cyber@BGU comprises more than 130 researchers, students

and technical staff. Core research competencies under the Cyber@BGU umbrella include IoT security; cyber for intelligent transportation; cyber for aviation; cross-platform malware detection; AI-based cyber solutions; blockchain; implementation security; mobile network security; air-gap; ransomware analysis; Adversarial AI; security analytics; machine learning and deep learning; fraud detection; user profiling for both private and public users; and Big Data analysis for cyber security.

These skills and capabilities are essential in order to ensure the protection of national and private sector infrastructure and to lead the forefront of the cyber-battle, bringing together academic expertise, professional experience and the enthusiasm, drive and passion of researchers and students to create an environment that encourages innovation while developing real-world solutions.
https://cyber.bgu.ac.il/