



The **Biohacking Village** shapes emerging and established fields at the intersection of cybersecurity and biotechnology. With partners, BHV creates an immersive world-class medical lab for interactive healthcare security research at events such as DEF CON, RSA, and a series of customized events for selected partners and agencies around the globe. With the help of well-informed leaders, the BHV will expand opportunities for the field and will achieve its goal of building a sustainable, staffed model by 2022. To do this, BHV prioritizes:

BUILDING RELATIONSHIPS among leaders in healthcare cyber safety and citizen science, across diverse stakeholder groups.

EDUCATING THE WORKFORCE security researchers, regulators, public policymakers, manufacturers, care providers, citizen scientists, DIY biologists, and the media.

GROWING THE NEXT GENERATION of healthcare cybersecurity practices the world demands.

New! This year, Biohacking Village will host an RPG environment to emulate the in-person experience of our events and our badges, as always, are not to be missed! Together with our members we have a feedback report for all participating medical and pharmaceutical device members (provided ahead of DEF CON) and we launch renewed tabletop exercises, venture capital networking, and workforce development activities. We are also founding members of the BIO-ISAC and are actively spearheading the creation of a cybersecurity certificate program specific to the interests and expertise of the Biohacking Village community.



Over our first five years, the **Biohacking Village** built credibility across the healthcare community, established a safe space for difficult discussions, and supported researchers as they innovate. Over our next five years, the Biohacking Village is uniquely poised to inform global conversations on citizen science, DIY Bio, and healthcare cybersecurity research.

**TO DO THIS, WE NEED YOUR
INTELLECTUAL AND FINANCIAL SUPPORT**

WHAT'S IN IT FOR YOUR ORGANIZATION?

INFORM PRODUCTS through rigorous, real-time testing, analysis, and reporting to identify recommendations from global researchers and experts in security and design.

PARTICIPATE in exclusive donor-only events and workforce opportunities and extend your reputation for impact at conferences like DEF CON, RSAC, and Hack in the Box.

POSITION YOUR BRAND by broadcasting your support of the values shared by industry leaders through the Biohacking Village including the FDA, BARDA, Mayo Clinic, Siemens, and the new BIO-ISAC.

DEVELOP WORKERS that exceed the needs of traditional healthcare practice in care delivery and cybersecurity, while sharing your technology with researchers, regulators, clinicians, manufacturers, citizen scientists, DIY biologists, and the media.

Membership	Diamond \$150,000	Platinum \$75,000	Gold \$50,000	Silver \$25,000	A la carte \$10,000	PARTNERS (2020)
BHV membership recognition	*	*	*	*	*	
Virtual event swag inclusion	*	*	*	*		
Research paper	*	*	*			
Podcast/interview feature	*	*				
Challenge prize underwriting	*	*				
BHV resume repository access	*					
BHV certification underwriting	*					

THE BIOHACKING VILLAGE, a 501(c)3 organization, is uniquely poised to inform global conversations in health care cybersecurity research. Representing voices who see 'code' as genetics, 'subroutines' as organic processes, and 'programs' as life itself the BHV is an expansive and inclusive, hands-on playground for the entire biomedical ecosystem through meaningful technology. This nimble community delivers hands-on, strident learning labs to influence health care, industry, and manufacturing.



DEVICE LAB

The Biohacking Village has always offered a frontline opportunity to protect medical device manufacturers. Prior to opening the Village to the public, MDMs will get a walk through to see our virtual RPG environment. MDMs are getting endpoint connection devices to connect to our system. The BHV will send out a threat model (co-authored by [QWASP](#)), a threat attack report (provided by [Scythe](#)), and Software Bill of Materials (provided by [Medcrypt](#)) prior to DEF CON. There will be an after-action report post-con to show log reports of the environment. Security researchers will sign the [Hippocratic Oath for Hackers](#) along with a framework of boundaries and rules of engagement during and post conference engagement. They will then be able to walk through to learn the lay of the land and build relationships via scavenger hunt. Devices will have a clickable folder that contains an nmap scan and MDM provided manual for review.



SPEAKERS LAB

This year we are reimagining and reinventing healthcare to set in motion a long-term plan of action, equity, and trust. Connection starts with shared experiences and as end users of the medical system, we have an opportunity to change the dynamic of the industry from the in and out side, with a reflection and the momentum of the current situation we have faced as a worldwide community during COVID-19. From their adventures in garage science to the emerging threats full stack biotechnologists (embodying security researchers, regulators, clinicians, citizen scientists, patients, and engineers) uncover next generation solutions and next level care. We work to enlighten and inspire BHV attendees through creative and collaborative discussions around emerging technologies and threats, novel work in biologics, security architectures, and the opportunities inside the interdisciplinary nature of healthcare.



CATALYST LAB

We convene thought leaders, hacktivists, citizen scientists, and manufacturers from across the biomedical industry to investigate solutions-of-best-fit for the world's largest, meatiest problems as they enter the Biohacking Village. The Lab provides experiential workshops, tabletop exercises, networking, workforce development, and solutions design for the entire biomedical device and security ecosystem through three primary engagements:

- The Garden: curated start up companies seeking funding and mentorship are introduced to accelerators, incubators, venture capital firms, and manufacturers to explore procurement and investing
- Workshops: hardware, software, biological, and mobile application workshops with BHV certification (some sessions may be eligible for CPE, CME, etc.)
- Tabletop Exercises: Layered challenges and agency, manufacturer, and security researcher inputs drive the exploration of current issues and content through the provocative lens of BHV's world-renowned TTX faculty



CAPTURE THE FLAG

Hospital Under Siege, a scenario-driven Capture the Flag contest, pitting teams of participants against adversaries and against a clock, to protect human life and public safety. Participants will compete against each other on both real and simulated medical devices, integrated into the fully immersive Biohacking Village: Device Lab, laid out as a working hospital. Teams of any size are welcome, as are players from all backgrounds and skill levels. Challenges will be tailored for all skill levels and draw from expertise areas including forensics, RF hacking, network exploitation techniques, web security, protocol reverse engineering, hardware hacking, and others. You will hack actual medical devices and play with protocols like DICOM, HL7 and FHIR.