



TECH X FOUNDRY

TechX Foundry Overview Brochure

Corporate Brochure as of March 2015

Design, Prototype & Manufacture

David A. Rosen
david.rosen@techxfoundry.com
908.222.3400

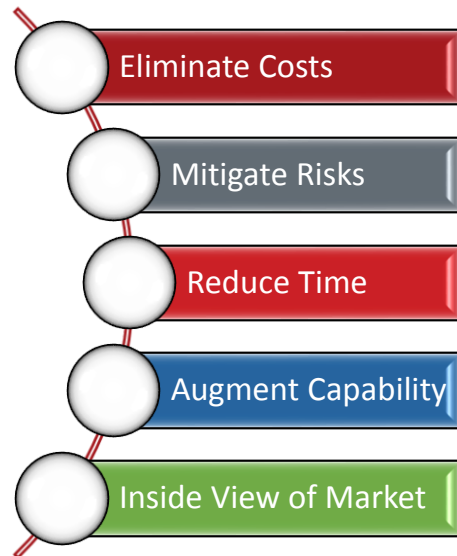
I. TechX Foundry™ Overview

TechX Foundry™ (TechX) is a membership based Innovation Center for Design, Prototyping and Manufacturing of tech hardware, software and systems whose purpose is to eliminate costs, reduce and mitigate risk and accelerate time spent from Concept to Market. Members, which include startups, corporations, manufacturers, entrepreneurs, and enthusiast/hobbyists, share in the millions of dollars in assets and the Eco-System of the TechX Foundry. The facility includes: Fab Lab tools and Equipment, software and Industrial and Office WorkSpace, Education, & Certification, Access to Experts/Mentors and Services such as Business or Contract Design, Prototyping and Manufacturing services.

A. Benefits

Members are provided with an Ecosystem where:

- Capital costs are nearly eliminated and operating expenses are significantly reduced,
- Business and Development risks are reduced and mitigated through mentoring and advisory services;
- Time from prototyping to initial production acceleration and savings is measured in months, not hours, days or weeks
- Monetization, go-to-market plans, Economics and market exploitation can be evaluated;
- Scalable manufacturing options can be explored, modeled and compared;
- Visibility and access to innovative processes, technologies, and know-how are shared;
- Overall product life-cycle economics, Doability, and marketability are objectively assessed.



II. TechX Foundry Competency Centers

TechX Foundry supports companies and individuals working through the challenges of Tech Hardware, Systems and Software products and services. We are building several competency centers which will be available to our members and the community, including:

- Robotics – from automation to fabrication and RC devices
- Advanced Manufacturing – from automation monitoring and controls to Materials & Big Data
- Autonomous Vehicles – from personal vehicles to commercial package logistics and trucks
- Internet Of Things – from Home & Health Tech to Security, Wearables and Wireless
- Clean Tech – Sustainable Solutions and Alternative Energy
- Smart Cities – highly automated and sustainable solutions for new cities and renovations



We are creating partnerships with Large Corporations, Universities and Manufacturers who can help round out the know-how, knowledge, experience and process thinking to escalate innovation. These Centers are backed-up by 14 more identified areas for us to pursue, at the right time.

A. About TechX Foundry™

TechX is developing a 70,000+ sq. ft. Innovation Center facility located in the heart of northern New Jersey, just minutes from New York City. Offering Memberships for Corporations & Startups, Education, and Individual hobbyists/enthusiasts, TechX is based on a shared resource model for Manufacturing and Technology. Our professionally designed facility provides a modern industrial aesthetic that provides members with a collaborative, supportive, creative and innovative working environment. TechX offers a unique experience where members have access to four main offerings:

1. **TechX FabLab**
2. **TechX WorkSpace**
3. **TechX Academy**
4. **TechX Innovation Sciences**

B. TechX FabLab - Design, Plan, Prototype, Build, Test and Package

A major portion of the facility is dedicated to machinery, technology, and individual and group workbenches to conduct research, fabricate and build parts, systems and solutions, and manage projects. Our fabrication labs provide direct access to more than \$3M of the most advanced and traditional tools for developing requirements, designing, prototyping and manufacturing. Table 1 provides a sampling of the equipment categories available for members to use.

A significant amount of space is available for bench-working and large table surfaces for cutting fabrics, soldering, and many other building, software development, integration and testing activities. Just like going to the gym, starting at less than \$7 a day, members can have access to all equipment, as well as discounts on other facility services and partner programs.

TABLE 1. TECHX FAB LAB SAMPLE EQUIPMENT

3D & 2D Printing – Metals, Plastics & Color	IoT, M2M, Wireless Lab, Lasers, Robotics & LEDs	PC Board, SMT, Soldering, & Electronics
Computer & Software Labs	Laser Cutters & Crafting	Tech Fashion - Materials, Jewelry, Looms & Knitting
Design, Architecture & Engineering Studio	Green Screen Studio & Photography/Video Suite	Micro-Controller & Motors Lab
Wood - Metal Fabrication & Machining	Plastic Forming & Molding	Welding & Metal Working



C. TechX Work Space

With more than 25% of our facility dedicated to TechX Office WorkSpace offerings including conference rooms, mini suites, huddle spaces and lounges, and either dedicated or non-dedicated desks, our members truly have a comfortable place, away from their job and home to work and be creative. Our TechX Industrial WorkSpace options provide hard to find parcels of working space ranging from 100 square feet to more than 3,000 square feet for housing your own equipment and materials.

Additionally, our unique Co-location offering accommodates tech hardware startups, entrepreneurs, and makers, with dedicated industrial and storage spaces. Storage options start with cages and pallets and expand to parcels of 150+ square feet of space that can be open, caged or walled.

D. TechX Academy - Training, Learning, Certification and Events

At the heart of our value proposition, is our expansive teaching academy. With accommodations for up to 8 daily classes, including break and huddle spaces for assignments, our programs are designed for both theory and application, as students get machine-certified, participate in how-to workshops, attend corporate-sponsored seminars, and partake in project series programs, as they learn both advanced manufacturing and standard technologies. These opportunities will be marketed to both facility members and non-members.

TechX currently has two agreements in place, with Rutgers University and NJIT which will co-brand classes, hold faculty office hours and conduct joint research efforts with our TechX teams, members and corporate partners.

TechX will be host to a university-sponsored class for credit program, providing community support for the underemployed, returning veterans and unemployed to assist them in attaining new manufacturing jobs. Additionally, many of our courses, events, and projects are geared towards generating regional community interest in tech hardware, manufacturing skills and careers. By appealing to teens and adults with STEAM programs, we will cultivate interest and identify opportunities in the manufacturing fields.

Initial programs include:

Business – Marketing, Sales, Finance, Operations & HR	Engineering –all major fields	Science & Mathematics
Software Programming	Materials Science	Maker Projects
STEAM – Science, Technology, Engineering, Arts & Mathematics	Program and Project Management	Basic Safety & Instruction



1. Community Outreach: Events, Lectures and Networking

TechX, will utilize its training and auditorium spaces for event. We will host and manage Meetups, Pitch Events, Competitions and Panel Discussions on a variety of topics relevant to startups, businesses, technology, and marketing, among others. The TechX faculty, resident inventors, specialists and lab leaders will host programs related to the applications and technologies focused within our training and education and fabrication facilities such as connected devices, IoT, M2M, etc.

At the request of our manufacturing members, we will host programs for Teens and Adults to provide more hands-on exposure to manufacturing and advanced manufacturing technologies. This gives our corporate and business customers a unique view of the talent in the facility that could become apprentices or experienced hires.

E. TechX Innovation Sciences

For those times when you are not able to dedicate your resources, or lack the expertise or resources, TechX Innovation Sciences will conduct the project at hand and deal with the timing, economics and terms of the deliverables. TechX offers the expertise and methods to provide contracted services offering absolute control of the process. Our services span the spectrum from Ideation and Product Conception, through all aspects of planning, designing, prototyping, manufacturing, testing, packaging, fulfilling and repairing your products on your behalf. Whether we do it ourselves or contract with others, you will have complete control over the process and approach.

Our offerings are meant to support companies throughout the value-chain process from initial ideation and concept generation through business planning, designing, prototyping, manufacturing, testing, packaging, fulfillment and services. Our initial services will include and extend beyond the following:

3D Prototyping Services – Plastics, Metals, Precious, Molds, Ceramics, etc.	Program Management, Project Management and PM Office	Plastic Molding and Forming for Packaging of Devices
Market Research – Primary and Secondary	Design Support Services	Business Plan Development
Co-location of Member Equipment – Startup and Small Runs, Re-Starting	Prototype Assembly and Testing – Electronics, Animatronics, Mechatronics	Metal and Wood Fabrication of Boxes, Device Cabinets
Testing Program – Independent Validation, Physical, Electronic, Electrical, Mechanical, Environmental	Sourcing and Manufacturing for Volume Procurement, RFP Development, Selection Assistance, Off-Shore-On-Shore Analysis	Micro-Controller to Custom Board Conversions



III. TechX Foundry Amenities and Other Services

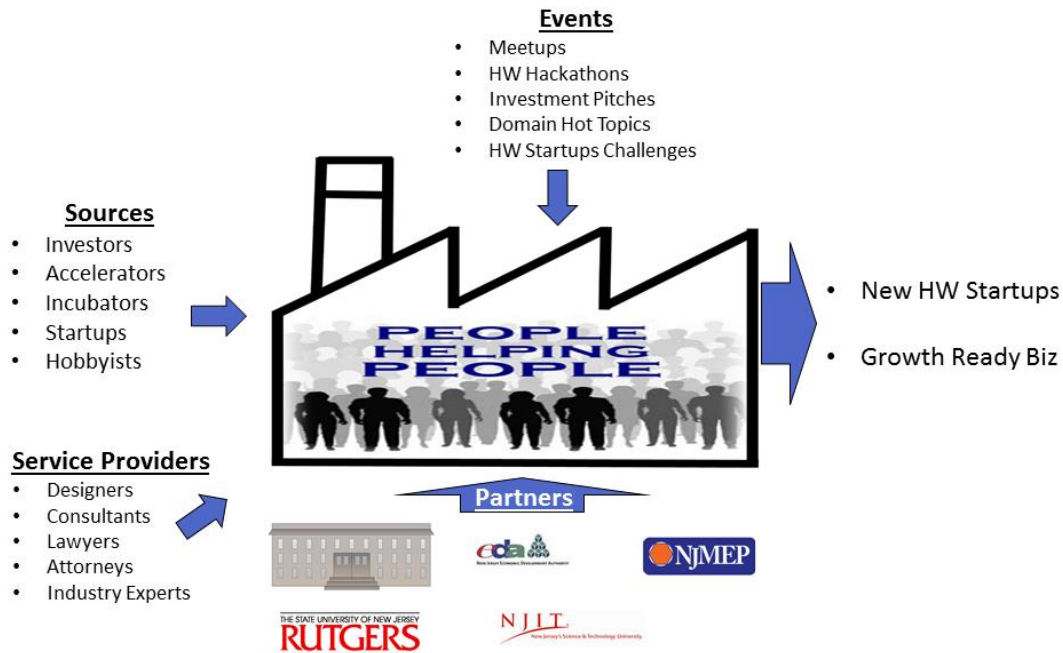
TechX Foundry services are supplemented with a comprehensive eco-system to support its members. The unique eco-system and its people, process and technology connects members with a wide array of resources.

Our distinguishing factors include:

- Providing the unique set of services,
- Connecting members with industry, academic and other talent,
- Availability within a Single Facility Hub, and
- Collaboration and interaction between businesses, startups, inventors, customers, academia and suppliers.

This eco-system will be available in the New York metropolitan area and then will be replicated in other geographies, both within the US and outside the US. We are connectors for sharing asset intensive businesses and equipment, balancing the future of Manufacturing and getting inside of high-growth, interesting fields surrounding advanced manufacturing and Tech Hardware and Software.

TechX Foundry™ Ecosystem



Additionally, we are working through relationships with Fortune 100 size companies to co-locate teams of product innovators, developers, marketers and others within our facility as well. We are providing an opportunity to work, learn, and build in one location with many tools, technology, people and



process to assist you, whether you are creating a new product for market, making a new piece of furniture or technology for a friend or family member, or launching a new commercial business outside of the sphere of influence and effect from current legacy products and businesses.

IV. Summary and Benefits

In summary, TechX Foundry is leading the region to help Corporations, Startups and Entrepreneur/Enthusiasts capture the high growth in Tech Hardware markets while assisting others in the community to get **inspired** to capture a new market, **innovate** a new solution, and **industrialize** a successful, valuable product. Our service, maker and partner teams are here to make it happen.

We have focused our efforts to consider the needs of the business and individual's needs. Our benefits can be summarized as the following:

- Accelerate commercialization of new products and technologies
- Access the most advanced design, rapid prototyping, and business planning tools and technologies
- Dramatically reduce product lifecycle cost
- Increase market intimacy through independent and accelerated customer feedback loops
- Expand current skills, add new ones to the team or learn new ones for the existing members which broadens the pool of expertise, capabilities and knowledge required, from the founding team, to bring a product to market

V. Opportunities at TechX Foundry...

If you are an innovator bringing new products to market, an inventor, entrepreneur, or startup team member, or simply inquisitive and looking to be creative, there are many opportunities for you.

In the spirit of paying it forward, and for those wishing to share their experiences and craft skills, we have opportunities from paid positions as a makers, instructors, inventors, domain leaders, project leaders and advisors. And we have volunteer positions and programs as well. If you are an experienced craftsman (person), engineer, mechanic or scientist and have something to share and give, please reach out to us. We are looking to add to our community in exchange for discounts on our memberships.

VI. Contact TechX Foundry

If you would you like to know more about TechX Foundry and what it offers to businesses and individuals, please feel free to contact TechX at info@techxfoundry.com. Or, feel free to contact our CEO, David Rosen at (908) 222-3400 or email him at david.rosen@techxfoundry.com.

NOTICE OF CONFIDENTIALITY: This document and all the contents herein are the property of TechX Foundry and are private between TechX and the intended reader. If you are not the intended reader, then you are hereby notified that this document is confidential and you are requested to delete and destroy it and requested to please notify us at security@techxfoundry.com or call us at 908-222-2900 at your earliest convenience.

