



GREAT PLAINS

TECHNOLOGY & MANUFACTURING
CLUSTER

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KANSAS STATE
UNIVERSITY

Technology
Development Institute

Supported and Hosted by the:
K-State Technology Development Institute
U.S. Small Business Administration



510 McCall Rd - Manhattan, KS 66502 - www.greatplainstmc.org

K-State Technology Development Institute

- Current Economic Development Administration (EDA) University Center
- Unit of the K-State College of Engineering
- Established in 1985
- 22,000 sq. foot facility
 - *Half office and Half prototyping shop*
- 10 full time staff & K-State interns
- Engineering and Business professionals
- Provide technical support to develop new products and technologies to help companies grow



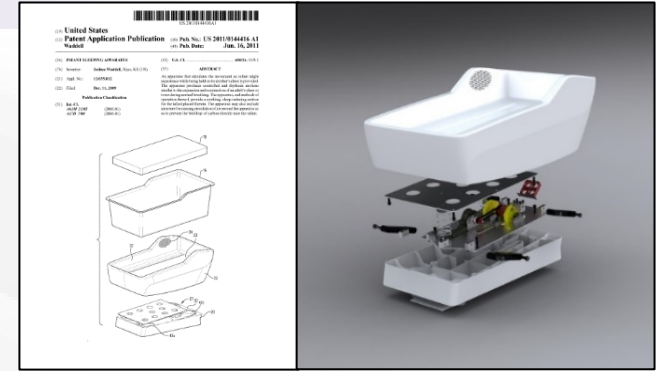
TDI Services

New Product/Business Development

- Market Research
- Intellectual Property/Patents
- Business Planning
- Product Design
- Prototyping
- Testing
- Marketing Assistance

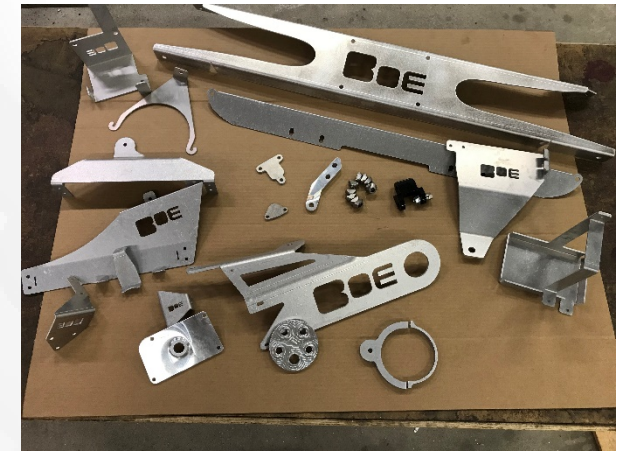
Existing Businesses

- Address Limited Capacity
- Automation Development/Custom Equipment Design
- Computer Simulations
- Reverse Engineering
- Evaluate & Identify New Product Opportunities



TDI Services

- Multiple industries
- Customers range from entrepreneurs and inventors to small and large companies/manufacturers
- Contract basis that includes a fee for the services provided
- Funding assistance resources available to offset costs



Innovation Stimulus Program

- US Economic Development Administration University Center (EDA)
- CARES Act funds
- Provide support to innovators and mfg with no-cost commercialization/engineering services
- Projects capped at \$20,000
- Apply at www.ksu.edu/tdi
 - *Innovation Stimulus* tab

Project Examples -

- Preliminary intellectual property research
- Customer and/or market research on new product ideas
- New website creation or marketing materials
- Design, engineering or prototyping of new product ideas
- Creation of SolidWorks models/drawings

The screenshot shows a web browser displaying the Kansas State University Innovation Stimulus Program page. The page features the university's logo and navigation links. The main content area is titled "The Innovation Stimulus Program" and includes a sub-header "Technology Development Institute". The text explains that the program is designed to provide support to innovators and manufacturers across the region impacted by the COVID-19 pandemic. It details the program's goals, such as providing no-cost commercialization and engineering services to projects with a positive economic impact. The page also lists examples of projects that could fit within the program, including preliminary intellectual property research, customer and/or market research, website creation, design and prototyping, and SolidWorks models/drawings. A "Contact Information" section is visible at the bottom, with a form for providing contact details.

Great Plains Technology & Manufacturing Cluster

- Initiative through the U.S. Small Business Administration
- Regional Innovation Cluster (RIC)
- Networking hub to connect with resources needed to grow business and drive innovation
- Great Plains region
 - *State of KS and KC Metro*



U.S. Small Business
Administration



Goals

- Central hub to find technical and business resources
- Grow small businesses and manufacturing
- Develop, launch and grow new products into the region
- Build an innovative community
- “Find & Be Found”



Resources

- Engineering and Technology
- Workforce Development
- Commercialization and R&D
- Business Support
- Website Assistance
- Data Analytics
- Networking and Mentoring
- Workshops



Partners

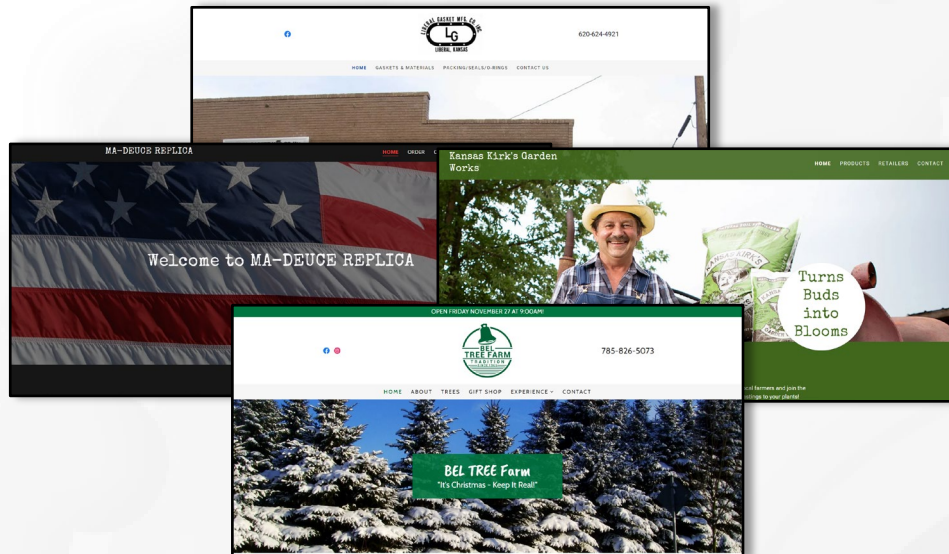
- Regional/State Partners
- Economic Development
- Business Support
- Funding
- Workforce



Programs

Website Creation Program

- No-cost website creation/update
- GoDaddy Platform



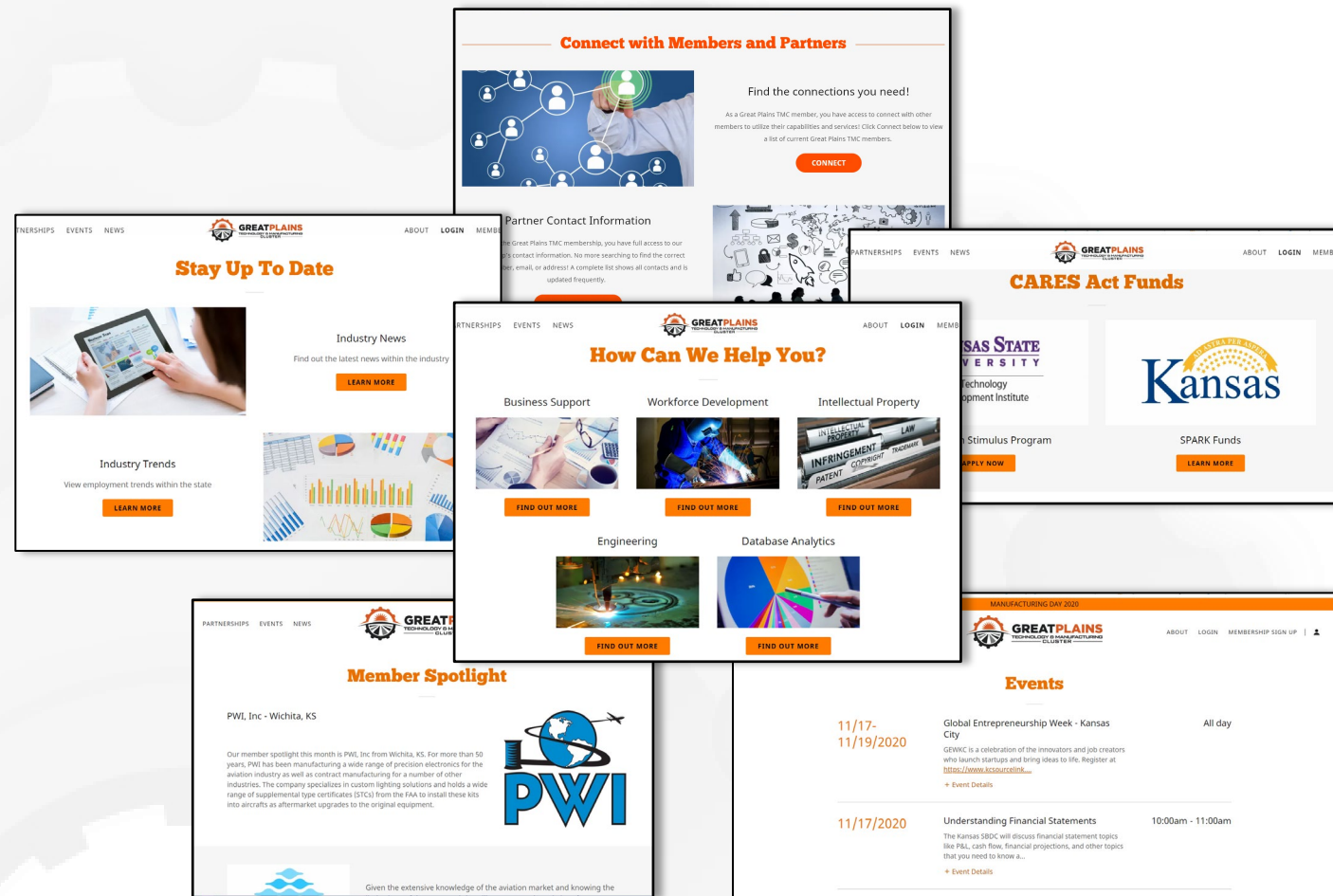
Future Programs Focused on –

- Commercialization
- Employee Recruiting
- Open Innovation



Membership Benefits

- Access to registration links for upcoming workshops
- Regional manufacturing news and trends
- Extended information about resources
- Network with manufacturers and partners
- Opportunity to have company information, updates, and products/services promoted throughout the region
- Member Spotlight



Member Newsletters

- Monthly newsletters
- Member Spotlight
- Partner and Membership Updates
- Website Creation Program Feature
- Upcoming Events
- Other engagements

GREAT PLAINS TECHNOLOGY & MANUFACTURING CLUSTER

NOVEMBER 2020 NEWSLETTER

Member Spotlight

PWI, Inc
Wichita, Kansas

Our member spotlight this month is PWI, Inc from Wichita, KS. For more than 50 years, PWI has been manufacturing a wide range of precision electronics for the aviation industry as well as contract manufacturing for a number of other industries. The company specializes in custom lighting solutions and holds a wide range of supplemental type certificates (STCs) from the FAA to install these kits into aircrafts as aftermarket upgrades to the original equipment.

Given the extensive knowledge of the aviation market and knowing the limitations of the current air handling systems aboard aircraft, PWI realized the need for an air handling system that could allow the same type of aircraft upgrade to be made in order to eliminate the threat posed pathogens in a confined air space. As a result PWI created a sister company called AERO BIOTEK which focused on developing a technology capable of meeting the needs of the aviation industry.

The company developed the Biotek Shield which can be installed in an aircrafts existing air handling system and uses ultraviolet light (UVC) exposure to treat air during operation. The UVC light spectrum has been widely tested against a range of pathogens such as H1N1, SARS, West Nile, Tuberculosis and has proven the ability to obtain a 6-log reduction as a result of the treatment. This effectively means that the system is capable of neutralizing 99.9999% of airborne pathogens.

In addition to the aftermarket aircraft products PWI manufactures and markets, they also provide a wide range quality contract manufacturing services and has a highly skilled and experienced engineering staff that is ready to help develop new product concepts. From prototyping to turn-key assembly, PWI has the experience to help make projects a success. Discover more about PWI and the Biotek Shield at www.pwi-s.com.

AERO BIOTEK

Want to be the next Member Spotlight?

Each month we will feature a Great Plains TMC member to highlight company capabilities and needs. If you have information to share, please send us an email at info@greatplainsmco.org to let us know!

Did you Know...

...U.S. manufacturers will need to fill 4.6 million jobs by 2028? Manufacturers struggle with finding and keeping workers that have the skills needed to move the company forward.

As a Great Plains TMC member, you have access to connecting with our resource partners that can solve this challenge. As quick as manufacturing trends are changing, we understand the importance of workforce training for employees to develop new skills.

Contact us at info@greatplainsmco.org to connect to workforce resources!

Cluster Collaboration

Program Success

Support the growth of local businesses gives business new website or convenience to find out for online presence

BEL TREE FARM
TRADITION SINCE 1953

BEL Tree Farm is a family-operated Christmas tree farm located in Saline County Kansas. They feature a wood heated store front with complimentary hot cider and popcorn, and each child receives a free tree ornament. BEL Tree Farm completes the experience with a Santa and a gift shop. They also offer fresh trees that are available for purchase. BEL Tree is available to rent for all occasions. These trees are up and running again, and activities on the farm, and finding a tree for the holidays. **Opening Friday, November 27th**

Company Engagement

The Great Plains TMC continues to strengthen its outreach to small businesses throughout the region. In the 3rd quarter of this year, the Great Plains TMC:

- Worked with over 100 companies
- Started 5 Website Creation Program projects
- Assisted 9 companies with market research
- Produced PPE for healthcare and Universities

New Membership Site

The Great Plains TMC membership is currently being updated into a new layout. Please be patient with us as we make the transition from the current site to the new layout. Let us know if you run into any issues or have questions at info@greatplainsmco.org.

Looking Forward

The Great Plains TMC will be a featured presenter on December 4th First Friday Zoom Call with the KSU Research and Extension. The purpose of these monthly zoom calls is to increase the local community's knowledge about experts, education and economic resources available to help small businesses and entrepreneurs. To listen to this call, email info@greatplainsmco.org for the link.

Member Spotlight

Outreach Coordinator

reach... She has... June 2019. State... Working with the... Center. As... ds her time... keeping up with the website and social media, traveling to visit companies and entrepreneurs, and connecting members with resource partners. Courtney can help you quickly access and find the answers and connections you need!

GREAT PLAINS TECHNOLOGY & MANUFACTURING CLUSTER NOV 2020

Membership Sign-up

- FREE to be a member
- Company Information/Point of Contact
- Username/Password
- Able to view other members
- Access to all of membership
- Newsletters
- Community of Resources!



A screenshot of the "Membership Sign Up" form on the Great Plains Technology & Manufacturing Cluster website. The form is titled "Membership Sign Up" and includes the instruction: "Fill in your information on the sign-up form to create an account to access the Great Plains TMC membership page!". The form fields are: Name*, Email*, Phone*, Address*, City, State*, Zip*, Company Name*, Industry*, Title*, Short Description of Company*, What services/products does your company provide?, Website Link*, and Number of Employees*. A red "SIGN UP" button is visible at the bottom right of the form.

A screenshot of the "Members" page on the Great Plains Technology & Manufacturing Cluster website. The page displays a table of members with columns for Company, Description, Service/Products, Point of Contact, and Address. The table is filtered to show 3 members.

Company	Description	Service/Products	Point of Contact	Address
1. Arwin Manufacturing Co, Inc www.arwin.com	Arwin Manufacturing was founded in 1970 and manufactures open molded fiberglass products.	- Acoustical Diffusers - Livestock Waterfasks - Riv components - Showers - Technology & Manufacturing	Caroleen Wilson - Office Manager 785-282-6487 arwin@arwin.net	720 E Hwy 36 - Smith Center, KS 66667
2. Aspen Business Group http://www.aspenbusinessgroup.com/Aspen_Business_Group/About_Us/About_Us.html	The Aspen Business Group is a management consulting and organizational development firm that helps businesses achieve their goals by working together with them to improve...	- Management consulting - Organizational development - Business Development	Russell Doberger - CEO 970-396-7009 russell@aspenbusinessgroup.com	13245 Turkey Trail - Wamego, KS 66647
3. BEI Tree Farm www.beitreefarmks.com	BEI Tree Farm is a family owned Christmas Tree Farm in Saline County Kansas. They grow Scotch and Austrian Pines and other Fraser Fir's too. Their property features a wood ...	- Cutting, netting, loading trees - Gift Shops - Horse drawn hay rack rides - Facility rental	Michelle Peck - Owner 785-826-5073 725peckfamily@gmail.com	401 S Holmes Rd - Salina, KS 67401

Thank you



GREATPLAINS
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Contact Us:

785-532-1249

www.greatplainstmc.org

info@greatplainstmc.org

Follow Us: @GreatPlainsTMC



Facebook



Twitter



LinkedIn

Membership Signup: <https://greatplainstmc.org/membership-sign-up>

Courtney Swanson – caswanson@ksu.edu

