



**Digital Bridge Technical Assistance Program
for Butler County Manufacturers**

TECHNICAL ASSISTANCE GRANT AWARD GUIDELINES

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SECTION I – GENERAL INFORMATION

A. Introduction

The Digital Bridge Technical Assistance Program for Butler County Manufacturers provides matching grant funds for small and medium sized manufacturers (SMMs) with production facilities in Butler County and is administered by Catalyst Connection. This funding is designed to assist SMMs located in Butler County integrate and expand the adoption of Industry 4.0 technologies (see **Section 1, E. Eligible Uses**) through assessment, evaluation, implementation and other assistance. The Digital Bridge funds provide a reimbursement of up to 80% of eligible project costs, not to exceed \$15,000. The objective of the funding is to stimulate economic growth in Butler County via business growth and expansion, and job and wage growth. Applicants must describe the intended outcomes and associated benefits as part of the application process. Applicants are also encouraged to provide the total amount of capital investment included in the proposed project, above and beyond the required cash match, as an indicator of total economic benefit to Butler County taxpayers.

B. Program Eligibility

Applicants requesting assistance through this program must meet all the criteria listed below to be eligible for funding consideration:

- **Small and Medium Enterprise** – All applicants must be registered in D&B. Manufacturing companies with a NAICS code beginning with 31-33 are preferred. Businesses from supporting industries, including Construction (NAICS code 23); Transportation and Warehousing (NAICS code 48-49); Agriculture, Forestry, Fishing and Hunting (NAICS code 11); and Mining, Quarrying, and Oil and Gas Extraction (NAICS code 21), will also be considered.
- **Location** – Applicant’s manufacturing facility must be located in Butler County, Pennsylvania
- **Economic Benefit** – Applicants must describe the economic benefits to the company, its workers and /or the community as a result of the project (ex: business growth, job creation, wage growth, expansion or other similar economic impacts)
- **Funding** – Applicants must be able to pay at least 20% towards the total project cost and be able to cover the total project costs until reimbursement is issued.
- **Timing** – Applicants must confirm that the project will be completed and payment of total project costs made within 12 months of the technical assistance award notice.
- **Butler County Tax Payer** – Applicant must be fully current on all Butler County taxes and fees
- **Surveys** – Applicants must agree to participate in post-award surveying to collect information on project status, investments, outcomes and economic benefits to the business, its workers and/or the community.

C. Funding Availability and Matching Requirements

All eligible applications will be reviewed and considered for funding, however, due to

limited availability, projects will be evaluated and awarded based on the viability of the project, total amount of funds leveraged, and potential for economic benefit. Once all Digital Bridge funds have been depleted, applications will be placed on a waiting list for consideration should additional funds become available.

Applicants may request funding support up to 80% of the total project cost up to \$15,000, and must therefore provide cash match of the remaining 20% of the project. The amount and source of matching funds shall be detailed within the application and be an allowable expense. Any change to the project scope post-award must have prior written approval of Catalyst Connection. In addition, a post award decrease in the project budget may result in a proportional decrease in funding award to maintain the minimum 20% match requirement.

D. Eligible Uses

Technical Assistance funds may be used to support direct, project-related consulting costs, contracted services, supplies, and one-time costs related to integrate and expand the adoption of Industry 4.0 technologies. Below is a list of technologies that may be eligible for funding support:

- **Big Data and AI Analytics** - In Industry 4.0, [Big Data](#) is collected from a wide range of sources, from factory equipment and Internet of Things (IoT) devices to ERP and [CRM](#) systems. Usage starts with data visualization and dashboarding and progresses on to further data manipulation. Analytics powered by [artificial intelligence](#) (AI) and [machine learning](#) are applied to the data in real time, and insights are leveraged to improve decision-making and automation in every area of supply chain management, including [supply chain planning](#), logistics management, manufacturing, R&D and engineering, [enterprise asset management](#) (EAM), and procurement.
- **Horizontal and vertical Integration** - The backbone of Industry 4.0 is horizontal and vertical integration. With horizontal integration, processes are tightly integrated at the “field level” – on the production floor, across multiple production facilities, and across the entire supply chain. With vertical integration, all the layers of an organization are tied together and data flows freely from the shop floor to the top floor and back down again. In other words, production is tightly integrated with business processes like R&D, quality assurance, sales and marketing, and other departments, while data and knowledge silos are a thing of the past.
- **Cloud Computing** - [Cloud computing](#) is the “great enabler” of Industry 4.0 and digital transformation. Today’s cloud technology goes way beyond speed, scalability, storage, and cost efficiencies. It provides the foundation for most advanced technologies, from AI and machine learning to the Internet of Things and gives businesses the means to innovate. The data that fuels Industry 4.0 technologies resides in the cloud, and the cyber-physical systems at their core use the cloud to communicate and coordinate.
- **Augmented Reality (AR)** - [Augmented reality](#), which overlays digital content on a real environment, is a core concept of Industry 4.0. With an AR system, employees use smart glasses or mobile devices to visualize real-time IoT data, digitized parts, repair or

assembly instructions, training content, and more when looking at a physical thing, like a piece of equipment or a product. AR is still emerging but has major implications for maintenance, service, and quality assurance as well as technician training and safety.

- **Industrial Internet of Things (IIoT)** - The [Internet of Things \(IoT\)](#) – more specifically, the Industrial Internet of Things – is so central to Industry 4.0 that the two terms are often used interchangeably. Most physical things in Industry 4.0, devices, robots, machinery, equipment, products, use sensors and RFID tags to provide real-time data about their condition, performance, or location. This technology lets companies run smoother supply chains, rapidly design and modify products, prevent equipment downtime, stay on top of consumer preferences, track products and inventory, and much more.
- **Additive Manufacturing/3D Printing** - Additive manufacturing, or 3D printing, is another key technology driving Industry 4.0. 3D printing was initially used as a rapid prototyping tool but now offers a broader range of applications, from mass customization to distributed manufacturing. With 3D printing, parts and products can be stored as design files in virtual inventories and printed on demand at the point of need, reducing both transportation distances and costs.
- **Robotics and Automation** - With Industry 4.0, a new generation of robotics is emerging. Programmed to perform tasks with minimal human intervention, robots vary greatly in size and function, from machine tending robots to autonomous mobile robots for material handling operations. Equipped with cutting-edge software, AI, sensors, and machine vision, these robots are capable of performing difficult and delicate tasks, and can recognize, analyze, and act on information they receive from their surroundings.
- **Simulation/Digital Twins** - A [digital twin](#) is a virtual simulation of a real-world machine, product, process, or system based on IoT sensor data. This core component of Industry 4.0 allows businesses to better understand, analyze, and improve the performance and maintenance of industrial systems and products. An asset operator, for example, can use a digital twin to identify a specific malfunctioning part, predict potential issues, and improve uptime.
- **Cybersecurity** - With the increased connectivity and use of Big Data in Industry 4.0, effective [cybersecurity](#) is paramount. By implementing a Zero Trust architecture and technologies like machine learning and [blockchain](#), companies can automate threat detection, prevention, and response, and minimize the risk of data breaches and production delays across their networks.
- **Other Smart Manufacturing/Industry 4.0 projects:** Investments in related technologies and technology applications that increase manufacturing and or business efficiencies.

Technical Assistance dollars **cannot** be used for the following expenses:

1. Purchase of equipment
2. Support recurring costs related to connectivity
3. Support internal salary costs of the applicant
4. Replace existing grant funds received by the applicant or support costs already paid for by another government grant (duplicate funding)
5. Pay for travel

6. Support indirect costs
7. Investment of equity or working capital
8. In-kind costs
9. Support other costs prohibited by Butler County, Commonwealth of Pennsylvania or federal law (for example: Lobbying, Advertising, Relocation costs, etc)

SECTION II – THE APPLICATION PROCESS

A. Application Submission

Catalyst Connection and its partners have staff available to assist SME manufacturers through the technical assistance process from assessment, project selection, scoping and application. The Catalyst Connection Point of Contact is Matt Holjes, Managing Director of Sales and Marketing. Interested parties should contact him either by phone (412) 918-4262 or email mholjes@catalystconnection.org concerning questions regarding potential projects, eligibility, or application completion.

Applications will be accepted by 12/2/2024 and will be reviewed for eligibility. All eligible projects will be considered for funding, however, projects will be prioritized based on total capital investment and potential for economic impacts. Awards will be made to the highest priority projects, until funds are fully allocated. The remaining projects will be placed on a waiting list for future consideration, should additional funds become available. Applicants will be notified within 30 days of the status of their project.

Applications must be submitted by email as one pdf file to the point of contact.

B. Contents of the Application

All applications must include the following components:

1. **Completed Application Form** - signed by the applicant
2. **Detailed Project Proposal/ Scope of Work**
3. **Detailed Budget/Cost Proposal** – budget detail must match what is reflected in the application budget summary
4. **Vendor Selection Process** – two or more vendor rates/prices are needed for purchases over \$50,000. A full RFP process in accordance with [2CFR200](#) is required for purchases of \$250,000 or more.

C. Application Review and Approval Process

Upon receipt, applications will be reviewed to ensure that the parameters for eligibility are met and that all required application components are included. Applicants submitting incomplete applications will be asked to resubmit and consideration of their project request may be delayed depending on the timing of application resubmission.

Applications will be reviewed by the Digital Bridge Technical Assistance Program Review Committee. Committee members include representatives from Catalyst Connection and

Butler County, who ensure applications meet award criteria, county, state and federal requirements. In some cases, the applicant may be asked to provide clarification and/or to submit additional documentation in support of its application. The extent of the information required, and the timeliness of response will determine whether the project can be considered within the current round or if they will need to reapply in a future round.

D. Award Criteria

Applications will be reviewed and recommendation for award to those that meet the following criteria:

1. All program eligibility criteria are met (see **Section 1, B. Program Eligibility**).
2. A clearly defined project and scope of work is included that integrates and expands the adoption of Industry 4.0 technologies with allowable project expenses (see **Section 1, D. Eligible Uses**).
3. Budget within cost parameters that include required match of 20%. (see **Section 1, C. Funding Availability and Matching Requirements**)
4. Documentation of a Vendor Selection Process for purchases.
5. Applicant is conducting manufacturing activities in Butler County
6. Applicant is current on all Butler County taxes and fees
7. Applicant provides total project investment information and a reasonable explanation of the economic benefits of the taxpayer investment.

E. Post-Approval Process

Applicants will receive written notification of application status within 30 days of the application deadline. Award notifications will include additional instructions and details on next steps and contractual requirements.

Catalyst Connection will provide project management support to awardees to assist with reporting and invoicing requirements. Any changes in project specs, timeline, budget and/or match will require written approval of the project sponsor and Catalyst Connection. **A post award decrease in the project budget may result in a proportional decrease in award in order to maintain the minimum 20% match requirement.**

F. Disbursement of Funds

Technical Assistance awards are paid on a reimbursement basis following completion of the project and the applicant's submission of satisfactory documentation of paid expenses (applicant's W-9, vendor invoices and corresponding proof of payment) equivalent to the total project budget/costs. Requests for payment and supporting documentation shall be submitted to the project sponsor for review and processing.

Funding reimbursement requires an invoice accompanied by payment documentation equivalent to the total project costs including match. Vendor invoices with corresponding cancelled checks documenting payment are required for reimbursement.

G. Reporting and Record Keeping Requirements

Awardees are responsible for the following reporting and record keeping requirements:

8. Comply with all state and federal rules regarding the maintenance of appropriate contractual and accounting documentation. These files must be available for review by the Commonwealth, auditors, the project sponsor, and/or fiscal agent upon request.
9. Report updates to the project status to Catalyst Connection when they occur.
10. Participate in post project impact surveys to collect quantitative and qualitative data on the results of the implemented projects, which may include, jobs created/retained, new/retained sales, cost savings, new/retained customers, and success stories.

SECTION III – Contacts for Manufacturers

Contact Catalyst Connection for more information:

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