

# Did you know...

63% of students identify personal experiences as the leading influence over their career path.

Those familiar with manufacturing are

2 times as likely to encourage a young
person into a manufacturing career.



## What is Dream It. Do It.?

• Change the perception of the industry and inspire students (just like you!) to pursue manufacturing careers.



Changing Minds About Modern Manufacturing

← CLICK TO WATCH!



# Your Logo!



.eps .ai .png .jpg



## **The Brand**

# Customization requests: institute@nam.org







Higher Pay. Better Benefits. Growth Opportunities. That's Modern Manufacturing.

What we've learned from our conversations around the country is how important teachers are when it comes to their students' career choices. Now, it may not seem like your students listen to you at times, but regarding careers, teachers are deepectations, names ungestions and steet decisions. Here are the key reasons why you should encourage your students to consider a career in modern ones destanding.

### CREATE THEIR OWN FUTURE AND SHAPE THE WORLD

- Modern manufacturing offers a chance to design and build the future, whether it's inventing the latest aircraft or automobile, a lifesaving medicine or a new way to harness power.
- A manufacturing career allows of the combination of practical problems power.
  A manufacturing career allows of the combination of practical problems power and the existing, new technology, such as 3-D printing, robotics and computer-aided design, to shape and build a better comprox. Want to see for yourself? Take a tour through a local manufacturing facility on Manufacturing Day, Visit www.mlgday.com.

### USE ADVANCED SKILLS TO MAKE THE NEXT BIG THING

- In modern manufacturing, your students get the chance to lead and collaborate with others early on, to grow through the development of lifelong, invaluable skills and the opportunity to enhance their career across diverse fields.
- The innovations of the future—whether that be self-driving cars, precision agriculture or artificial intelligence—will be guided by tomorrow's workforce in modern manufacturing.
- Whether through an apprenticeship program, a graduate trainee role or on-the-job teaching, there are many routes into modern manufacturing.

### SEIZE THE OPPORTUNITY TO JOIN A GROWING SECTOR

- By 2025, manufacturers expect up to 3.5 million job openings, with many roles potentially going unfilled due to a lack of trained employees.
- New jobs in modern manufacturing extend beyond shop floors and laboratories into offices, state-of-the-art tech centers
  and even your living room. Everything that is made needs smart thinkers and doers to invent, market, distribute and maintain
  revolutionary products.

### MAKE A DIFFERENCE AND EARN A HIGH SALARY

All your favorite products—from your mobile device to your lifesaving medication—are a result of modern manufacturing. Moder manufacturing is the timeless innovation generator, touching every industry while making the world what it is today—and what it will be tomorrow.







What you should know about

dream it.

Manufacturing careers can take your students in many different directions and around the country. Interested in learning more about modern manufacturing opportunities? Contact Lindsey McCall, Workforce Development Manager, Muskogee City-County Port Authority at lindsey@muskogeeport.com for more information.









### **CNC Manufacturing**

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- There are several implementation Models available exclusively to the Dream It. Do It. network:

  5-Day Program with Shop Ploor Activities

  10-Day Program with Shop Ploor Activities

  5-Day Program without Shop Ploor Activities

  10-Day Program without Shop Ploor Activities

  10-Day Program without Shop Ploor Activities





The Young Manufacturers Academy Program has several objectives:

Develop a program budget. Considerations include: objectives:

Palse awareness of manufacturing-related careers and

The Young Manufacturers Academy region mas seenal objectives:

Objectives:

The Standard of Manufacturing patient current said society, and society and society, and society a Identify a location to host your Academy students and qualified instructors. If you want to implement a program model that includes machine shop foor activities, consider partnering with a Community College or a Technical High School that has a manufacturing program.

3 Select the program activities that if your Academy. The emphasis should be on small group (3-4 suskeries) implementation, and activities should be solidited in the introduction of content and development of skills. Choose experiences that lose expose suburiers to a variety of manufacturing fundamentatis and educational/carter platiness;

- What shop floor activities will students participate in if any?
  What presentations and discussions will instructors lead?
  What will the schedule for all of these activities and events look like?
  Consideration include: daily curriculum, field trips, industry presentations, and capstoner fair event.

Gonduct student recruitment, select program participants, and create a waiting list of non-admitted students. If you are providing busing, you will need to contract with a bus company and drift routes, in order to provide parents/guardians with pick-up and drop-off information.

Send parents/guardians an acceptance packet, including bus info (f applicable), a program overview, requirements and expectations, permission slips, and

Develop your student recruitment strategy and colateral materials. Consider the number of participants you can accommodate based on space, planned activities, and instructors. Consider the make-up of the student cohort re

Consider:

Transportation – how will students get to/from the Academy each day? Will you provide busing?

Food – will students set funch at the Academy? Will you provide them any snack? What sort of tood or refreshments might be served at the capacione event?

Recrut industry partners who can provide additional resources; host a field trip to their facility for Academy students; provide guast peakers for the program "Lunch & Learns"; and/or participate in the program capastone

Consider:

Supplies – Do you have everything you need to conduct

the hands-on activities? Be sure to order whatever

the fraints-out abundants for student is truck whitelever supplies you! There din enough time to be delivered before the Academy begins. Printing—You will need to plan for student and instructor program outriculum marterials, assessments, activity handousts, bordowners for the output one event; etc. Fald trips—How will students get from the Academy to inclustry siles?

3 Academy Kick-Off (Day One): Collect any parent permission sign. Provide a general program overview for students, including expectations. Use lobe expectations of the control of the an introduction to manufacturing. If your Academy includes a stop forc component, newer short plot of selfey rules and

Program Timeline for a summer camp implementation:

- January-February: Planning-budget
   February-March: Program alte socured
   Mouth-April: Subsert recruitment penylisedes
   April: Instruction hered
   April: Instruction hered
   May: Thansportation logistics completed
   May: Thansportation logistics completed
   May: June: Supplies ordered
   May: June: Supplies ordered
   May: June: Supplies ordered
   May: June: Academy materies sent to parents
   June: Food logistics compilated
   July: Academy in hered

Inspiring the Next Generation: A Toolkit to Engaging Students **ACADEMY** 





The Young Manufacturers Academy

industry through hands-on activities and simulation-based learning, travel to industry locations for onsite interaction with manufacturers.

introduces middle grade students to all facets of the manufacturing

and a mock Career Fair capstone

MOTOROLA SOLUTIONS FOUNDATION



**Original Creators:** Connecticut Center for Advanced Technology, Inc.



Type of Activity: Student STEM program, primarily Dream It. Do It. Location: summer camp, though applicable



for both in-school after-school





Middle School Students



Students compile a portfolio of completed engineering and manufacturing projects involving parachutes, bridges, futuristic cars, robot programs, and carnival rides.

in the global economy.





### **BUILDING RELATIONSHIPS WITH EDUCATORS**

Title: Building Relationships with Educators

Target Audience: Educators

Synopsis: As a manufacturer, you have a unique perspective to offer educators and their students. But figuring out how to build a relationship, and what you want to say, can be a major challenge.

It all starts with understanding teachers -their unique practices, attitudes, and needs. Just like building customer relationships, it takes time to build a relationship with an educator, but doing so can help make engagement all the more satisfying, and help your message resonate with young women who are the next generation of workers.

The Dream It. Do It. network has proven that when manufacturers establish a lasting school relationship, students have more positive attitudes about our industry and also begin to consider a manufacturing career. The steps below can help.

### IMPLEMENTATION PROCESS:

 What age cohort are you trying to reach? There are several factors to consider. Although reaching a younger audience may increase the opportunity to influence girls and boys about career options and taking technical education classes, high school partners can be a great source for interns and other more immediate connections with your company.

- a. Begin by making a list of what your company can add to a school program, classroom, or club. Some things to consider include:
- . Who in your company will be responsible for student engagement? How much time will they allocate for these activities? Will they be able to take time during the working day to participate in these activities?
- Can your facility accommodate activities, tours, or events? If so, how many students? What age group are you comfortable bringing into your facilities's (See page 14 for Facility Tours)



12 Dream It. Do It. Ambassadors' Kit.

### INTERACTIVE CLASSROOM ACTIVITIES

Shop Floor Safety True and False: With our youngest audience, consider using a virtual facility tour video and following it up with a basic safety true and false quiz. Simple questions help students understand safety protocol in the manufacturing facility. Walk through the questions as a group with younger students or do it as a guiz for older students, then talk through the answers. Give examples from your own facility about why safety is important and how it can affect day-to-day operations.

### SHOP FLOOR SAFETY TEST

Circle true or false (T or F) in response to the following questions on safety:

- Wear safety glasses only when operating machinery.
- 2. Report all injuries, no matter how minor, to your instructor, T Wear proper safety shoes whenever on the shop
- floor T 4. When operating a machine, it is sometimes
- necessary to sit in order to avoid getting tired. TF Talking to others while operating a machine is not dangerous. T F
- 6. All shirt sleeves must be rolled up above the elbow.
- Do not run or fool around in the shop area, T F
- All jewelry must be removed before operating machines, including rings and bracelets. TF When you start to operate a machine for which you
- haven't received instruction, play with the controls first to see how it works. T
- 10. It's okay to wear loose, baggy clothing as long as it is tucked in a bit. T F
- 11. Do not operate a machine without instruction or
- 12. Once instructed on how to use a machine safely, you may remove your safety glasses. TF

Manufacturing Mr. Potato Head: At times, familiarity can help bring a situation to life. When speaking to a young audience, the Manufacturing Mr. Potato Head can be a

great activity to help simulate a manufacturing process with a fun final product. Depending on the class size, bring several Mr. Potato Heads to the classroom you are visiting and disassemble them so that body parts are placed in separate piles. Then provide students (individual or small groups depending on the class size) with the body of Mr. Potato Head and ask them to work together to finish manufacturing the rest of the toy. Use the activity as an opportunity for discussion and talk about other items that have been manufactured. If time permits, you can add twists to the activity such as requiring teams to trade parts to complete their toy.

### FOR 6TH - 8TH GRADE

Tallest Tower: Students are asked to manufacture a tower using just the items available within a bag handed to them. Have students unpack their materials and give them some time to plan their tower. During this time, they may touch and examine their materials, but they may not start building. They should sketch plans and discuss strategies. Once building starts, if they destroy a material, it cannot be replaced.

Give students some time to but modify their plans at any time. a plot twist. One possibility is to now trade materials with other agree. Another is to give out m or different) to the groups (soug adhesives - tape and glue - ar rule change is to say they must in their towers. Give time warning plan accordingly. The materials as items found around your off materials include:

- 2-3 feet of electrical tape (w craft stick)
- 3 manila file folders
- 5 paper clips
- 2 sheets of construction pa

## MANUFACTURING Institute What kind of opportunities and

- Everything from design studio, laboratory, workshop and office as well as across different industries, from aerospace, biopharmaceuticals, computing, auto or energy.
- What makes modern manufacturing different is the chance to make-and that means lots of differen roles and jobs.





n manufacturing, there are so many different roles and opportunities – from digital designs that transform concepts and ideas to paper (or rather computer), to selection of materials for these products, to esting in the laboratory for trial runs, to coding the computers that tell the machines what to do.

kit only are there a lot of different roles in manufacturing, but there are also so many different industries that manufacturing applies to! From fashion, to computers, to airplanes, furniture, medicine, make

- Teacher Guide: An Introduction to Manufacturing
  - Activities for grades 6-12 on What is
     Manufacturing, Manufacturing in
     America, and Careers in
     Manufacturing









### DREAM IT. DO IT. FRESNO INVITES YOU...

to participate in our Manufacturers' Kickoff Meeting /
Quarterly Meeting - Q2 2016
June 2, 2016
12:40pm to 1:20pm

The Center for Advanced Research and Technology (CART)

Manufacturing in California has an image problem! Together we can help change that for the better.

The San Joaquin Valley Manufacturing Alliance has launched Dream It. Do It. Fresno, joining a national youth recruitment initiative led by the National Association of Manufacturers' Manufacturing Institute. Dream It. Do It. includes marketing and branding of manufacturing careers, a national support network of organizations sharing best practices, and tools to help manufacturers reach young people, parents, teachers, and other influences on their career choices.

This kickoff meeting will introduce the program and will help us decide how we can work together to help raise positive awareness of manufacturing in the Fresno region. Led by Brent Weil, Senior Vice President at the Manufacturing Institute, the meeting will give you practical tips on reaching young people and the role of Dream It. Do It. in organizing our community for action.

This opportunity won't happen often, so we hope you can join us.

Please RSVP to samgeil53@gmail.com or call 559-217-5219.



### **Host an MFG DAY Event**

Join thousands of manufacturers as they open their doors to show the public modern manufacturing in action and inspire the next generation of skilled workers.

### **REGISTER NOW**

STEP 1: Create an account to start the registration process: <a href="https://www.mfgday.com/user/register">www.mfgday.com/user/register</a>

Already have an account? Login to create your event: www.mfgday.com/user

STEP 2: Click "Add Event" on your Host Dashboard.

Home / Host Dashboard
Host Dashboard

We've developed a number of tools to help you promote your MFG DAY event, which are accessible by clicking the "Before and Event Resources" tabs. If there are things you need that you don't see listed, please email us at info@migday.com with suggestio

Event Munagement

Chest Revocuts

All Lever Colony/Share Stury

Bennuikh Planners:

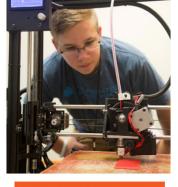
expedite the possparfor entering many events at the same time, take advantage of our Multi-Event Sympatheet

MERCHANE

STEP 3: Fill out your event details in 3 easy steps!

Have questions? Contact Us for help.

Debby Combs, Advanced Manufacturing Industry Partnership, debby.combs@uwgc.org



EMPLOYER INFORMATION SESSIONS OFFERED ON HOW TO HOST A MANUFACTURING DAY

August 2 | 9:00 a.m. - 10:00 a.m. TechSolve 6705 Steger Dr Cincinnati, OH

August 7 | 3:00 p.m. – 4:00 p.m. Northern Kentucky Chamber 300 Buttermilk Pike Lakeside Park, KY

August 8 | 9:00 a.m. - 10:00 a.m Cincinnati Chamber 3 East 4th St Cincinnati, OH

Visit www.mfgday.com to learn more.



# **Community Homepage Features**

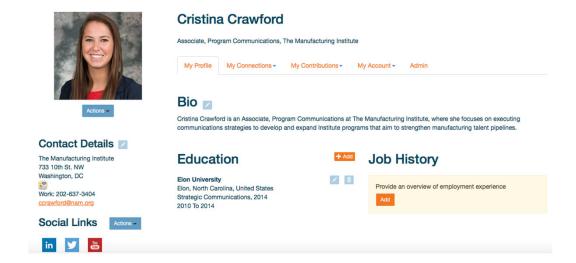


- Individual Profile
- Events
- Discussions
- Shared Files
- Announcements
- Active Members



# **Profile Page Features**

- Picture
- Edit Contact Information
- View Contacts & Shared Contacts
- Send Message
- Communities
- Networks





# **Member Directory**

Member Directory

Search by



		•		
Basic Search	Advanced Search	Find Anyone (Admin only)		
		t your search. None of the fields are required although you must enter something in at least one of them. Fields like First Name, La sartial match. For example, a Last Name search for "Jo" will find everyone whose name starts with "Jo".	st Name,	
Name				
1	First Name			
1	Last Name			
Comp	pany Name			
Ema	ail Address			
Locatio	n			
	City	er a full or partial city name		
State	e/Province (Sta	e/Province)	<b>\$</b>	
	Country (Co	intry)	•	
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# Member Directory – Search Results

 Find members, view profile, add contact, send a message

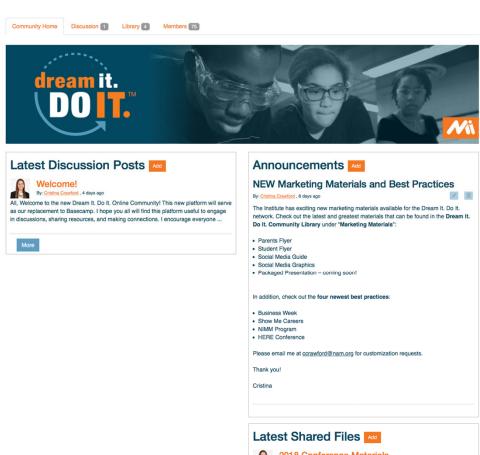




## Community functionality to include:

- Discussion Forum and subscription to the community's "Daily Digest" emails
- Dedicated Resource Library
  - Community Member Directory









### **General Overview:**

- To start, this community will be closed, so only members of this group will have access to view and engage with content. We plan to make this community available to other members of the Manufacturing Institute down the road (we'll let you know!).
- 2. The MFG Community Site has other communities with discussion forums that are open to join— you can view them under Communities > All Communities.

### How to start a discussion:

- 1. Send an email with subject line to <a href="mailto:themanufacturinginstitute\_dreamitdoitne@ConnectedCommu">themanufacturinginstitute\_dreamitdoitne@ConnectedCommu</a> nity.org
- 2. Log into the MFG Community to access the Dream It. Do It. Community. Click to add a new post from the "Latest Discussion Posts" section.







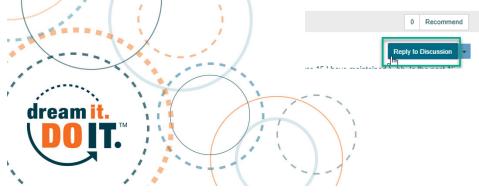
### How to reply to a post:

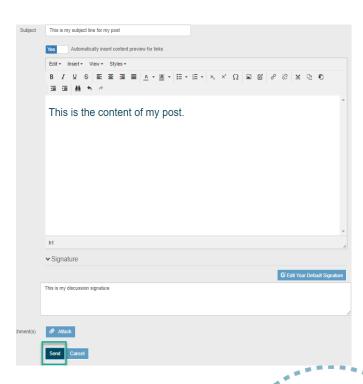
1. From the Daily Digest email, click "Reply to Group" next to the post you'd like to reply to and send your reply to the group via email:



Reply to sender allows you to send a private message to that person.

2. Navigate to the Dream It. Do It. Community and click on the Discussions tab. Click the "Reply to Discussion" button to the right to post your reply:



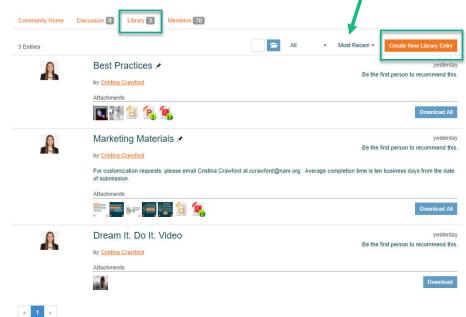




### How to share a resource:

- Add an attachment to your discussion post

  it will automatically be added to the community library!
- 2. Upload a file directly to the community library without posting to the discussion.



Click to filter the library resources by most recent,

most viewed or top rated.



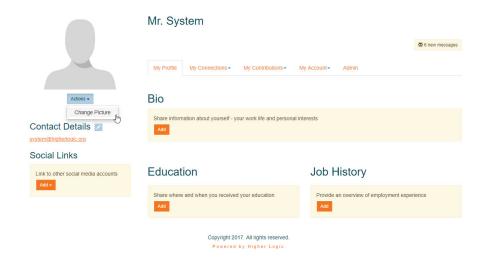




## How to update your profile:

 Navigate to your profile from the avatar in the upper right hand corner:







## How to access your community inbox:

 Click on the button next to the profile avatar in the upper right hand corner. If you have unread messages, you will see these on the right.

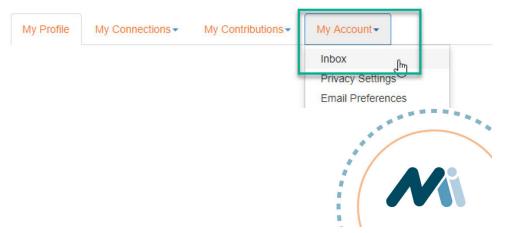
If you do not have unread messages, click on the "Profile" button.

Cristina Crawford

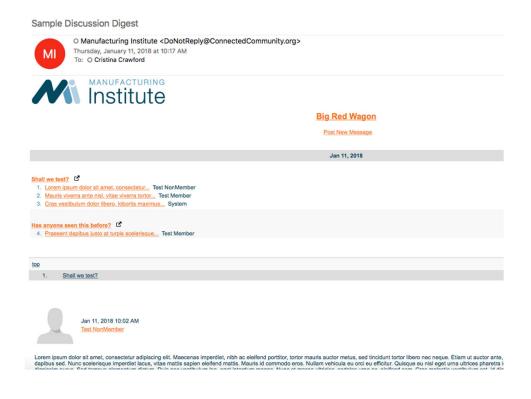
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Download vCard Send Message





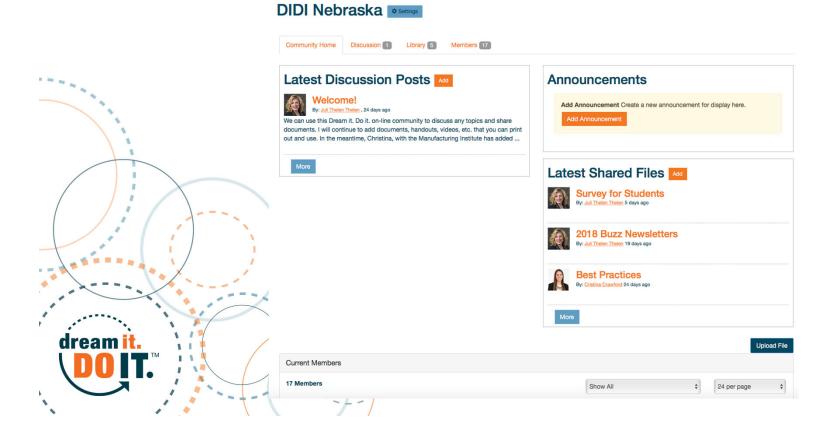
# **Community Activity**



- Discussions, Shared Files & Announcements Delivered to Outlook inbox
  - Real time
  - Daily Digest
  - No emails
- Clean & easy to navigate
- Reply to Discussion or Sender, View Thread



# **DIDI Sub-Community**





# **MFG Day**



**October 5, 2018** 

84%

More convinced that manufacturing provides careers that are interesting & rewarding.

89%

More aware of manufacturing jobs in their communities.

64%

More motivated to pursue careers in manufacturing.



# Why We MFG Day

- 1. Empower manufacturers
- 2. Change public perception of manufacturing
- 3. Introduce people to manufacturing careers
- 4. Draw attention to the roles manufacturers play in their communities
- 5. Underscore the economic and social significance of manufacturing



Learn more:

www.mfgday.com



# **Types of Events**



- Facility Tour / Open House
- Manufacturing community events and expos that include companies
- Educational fairs
- Celebrations of the manufacturing community
- Job Fair
- Presentations to students
- Roundtable discussions
- Virtual events and tours
- Parents Night



## www.mfgday.com



- Setting up your event
  - Organizing a facility tour





- Social media support
  - Sample content for Facebook, Instagram, Linkedin, Twitter, YouTube
    - Retweeting content from MFG Day/NAM/MI accounts

## www.mfgday.com

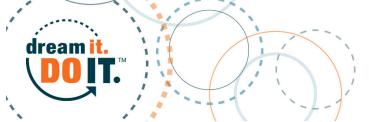
- Media kit/media guide
- Use MFG Day logos
- Use #MFGDay18
- Highlighting best events after MFG Day
- Participate in the MFG Day Survey



# Register Your Event!

- Done on the MFG Day website mfgday.com
- Can be registered as public or private
- Drive participation: schools, parents, job-seekers, public at large, policymakers
  - Drive awareness: media

Register and let us help you tell your story!



# How can you help us?

- Register your event(s)
- Guest blog
  - Success stories
- Spread the word

- Report metrics
- Use social media (#MFGDay18)
- Share photos/videos
- Get media involved
- You are the army!







