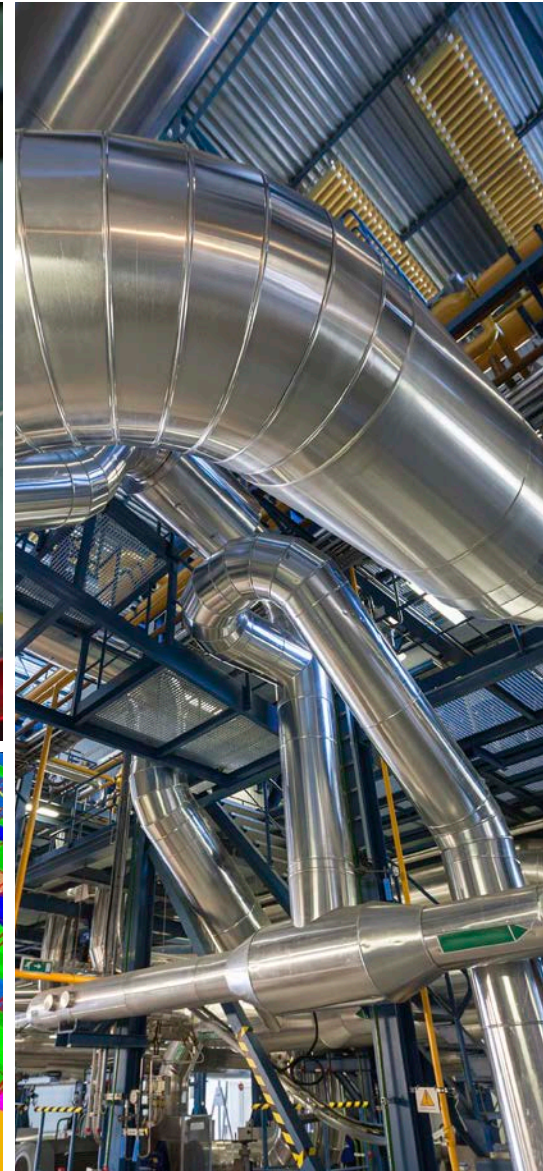
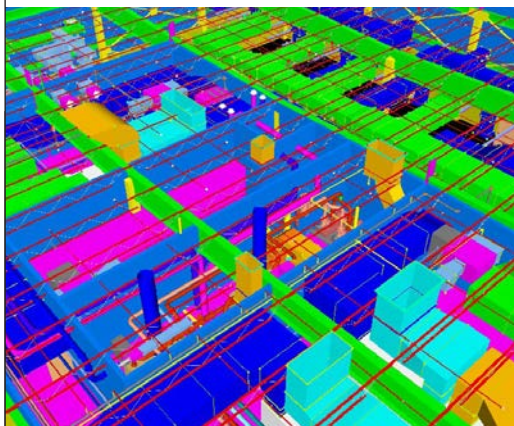
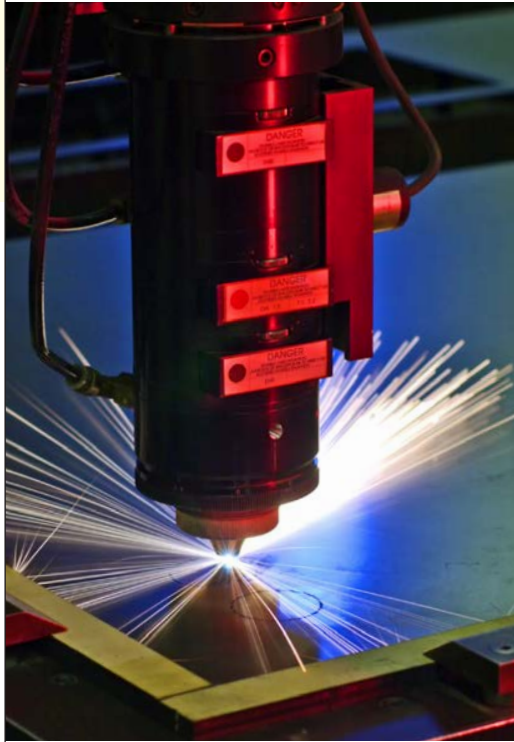


# University Mechanical & Engineering Contractors

An Award-winning Safety Leader  
—in Mechanical, Pre-construction  
& Process Piping Fabrication Services.

Providing design-build, design-assist, HVAC, plumbing, sheet metal, and process piping services for healthcare, biotech, high tech, water treatment, and power generation facilities and more.



# Exceeding Client Expectations. Providing Innovative Mechanical Systems Solutions.

Since 1922, the dedication, commitment, and hard work of our employees have enabled University Mechanical & Engineering Contractors, Inc. (UMEC) in Arizona to provide clients with best-in-class mechanical systems, design-build services, and innovative mechanical systems solutions. Our team of experts apply a range of specialized techniques to help end-users, owners, general contractors, and architects achieve substantial benefits—even before construction begins.

## Award-winning Safety. By the Numbers.

- » 10+ years, 8.1+ million hours, ZERO lost-time incidents
- » Ten SMACNA National 1st Place Safety Excellence Awards since 2005  
Each of these sought-after awards, presented by the Sheet Metal and Air Conditioning Contractors National Association (SMACNA), was earned by having the best safety and health record within the 400,000-500,000 hours worked category.
- » CSAP Platinum Award  
The Platinum Award is the highest level designation given by the Contractor Safety Assessment Program (CSAP) and is presented on behalf of UMEC's client, one of the nation's leading microchip manufacturers.
- » CNA Safety Award  
This award, presented by CNA, the country's 8th largest commercial insurance underwriter and the 13th largest property and casualty company, was given to UMEC for having 8,000,000 labor hours without a lost-time incident.

UMEC's commitment to safety is part of a multi-tiered, integrated approach that includes the **Be There For Life!—Zero Injury Program** as well as a host of supporting initiatives, such as the employee-focused **"Be Vigilant" Campaign**. This program is designed to educate its employees and their families about the importance of safety through the use of workplace posters, company newsletters, good work practice mailings, and a number of other creative tactics intended to instill the conviction that every injury is preventable.

## Awards. Advantages. And Client-focused Benefits.

- » Over 90 years of industry experience
- » UMEC in Arizona has access to ASME "U," "R," and "S" fabrication capabilities through/via UMEC in California
- » Award-winning safety program
- » State-of-the-art Class 100 high-purity piping fabrication facility
- » Quality assurance/quality control staff
- » Application of standard operating procedures for cGMP facilities
- » Leadership in Energy & Environmental Design (LEED)-accredited professional staff
- » Innovative, energy-efficient mechanical systems
- » Multi-trade state-of-the-art CAD/CAM 3D design/detailing and Building Information Modeling (BIM) capabilities
- » Significant prime contracting experience
- » Single-source responsibility
- » State-of-the-art productivity program
- » Superior pre-construction services, including engineering, design-build, and design-assist



## Thousands of Projects. Six Major Markets Served.

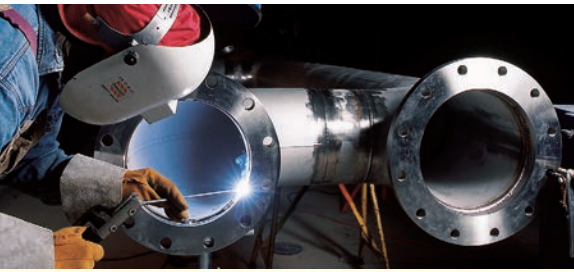
- » Education
- » Government
- » Technology
- » Healthcare
- » Industrial
- » Technology

## Industry Affiliations

- » Sheet Metal Workers International Association (SMWIA)
- » Mechanical Contractors Association of America (MCAA)
- » Sheet Metal and Air Conditioning Contractors National Association (SMACNA)
- » American Society of Heating Refrigeration and Air-Conditioning Engineers (ASHRAE)
- » Association of General Contractors (AGC)
- » International Society of Pharmaceutical Engineering (ISPE)
- » Semiconductor Equipment & Materials International (Semicon)
- » Institute of Environmental Sciences & Technology (IEST)
- » The United Association of Journeyman and Apprentices (UA)

WHILE YOU WORK, INJURIES LURK.

**BE  
VIGILANT!**  
EMCOR ZERO INJURY PROGRAM



# In-house Fabrication Capabilities. Comprehensive Suite of Mechanical Services. An Obsession with Customer Satisfaction.

## SERVICES AT A GLANCE

### Mechanical Services

- » Cogeneration
- » Custom HVAC duct work
- » Piping and plumbing fabrication
- » Fire protection services
- » High-purity systems
- » Industrial HVAC services
- » Industrial and process piping systems
- » Instrumentation
- » Medical gas piping systems
- » Commercial plumbing services
- » Sheet metal fabrication
- » Temperature and process controls
- » Testing, adjusting, and balancing
- » Thermal storage
- » Water/wastewater treatment and pollution control services

### Additional Services

- » Commissioning, re-commissioning, and start-up
- » Conceptual budgeting
- » Design-assist
- » Design-build
- » BIM coordination
- » CAD services
- » Fast track
- » Procurement and expediting services
- » Project management
- » Scheduling and planning
- » Value engineering
- » LEED services

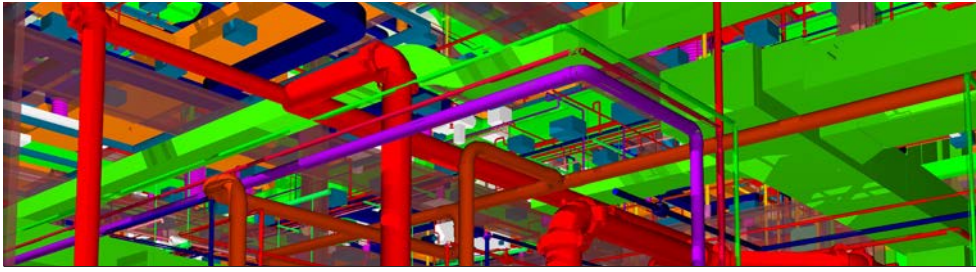
## Fabrication Services

UMEC in Arizona also has extensive fabrication facilities that provide our projects and clients a range of benefits, including increased efficiencies, timing, and safety. Fabrication is performed in the areas of piping, plumbing, and ultra high-purity piping for mechanical systems. These expanded fabrication capabilities include:

- » 5,000-square-foot covered piping fabrication facility, where we produce industrial stainless steel and other alloy products, as well as central plant systems
- » 6,000-square-foot plumbing fabrication shop—the only one in Arizona that is OSHPD approved to fabricate medical gas piping systems—where we manufacture copper components and cast iron assemblies
- » 3,500-square-foot ultra high-purity (UHP) piping fabrication facility consisting of 2,500 square feet of Class 100 UHP stainless steel fabrication area and 1,000 square feet of Class 1000 used for high-purity stainless steel or high-purity plastic piping fabrication. In this facility we fabricate under strict clean room conditions.

UMEC offers tailored system components delivered when and where they're needed for the safe, timely installation of dependable, high-performance mechanical systems.





### Design-Build & Design-Assist Services

UMEC's design-build and design-assist experts develop innovative pre-construction solutions that help ensure smooth, timely constructability while simultaneously meeting unique project needs. By investigating equipment and system alternatives, and assessing specification details, our experts help minimize expensive project changes or potential delays while helping to ensure ongoing value with the goal of:

- » Accelerated decision making
- » Increased productivity
- » Minimal shop drawing reviews and revisions
- » Earlier selection of long lead-time equipment
- » Improved budget control

### Building Information Modeling (BIM) Coordination & CAD Services

Building Information Modeling (BIM) is today's fastest and most cost-effective project management strategy. It's an area in which UMEC is a consistent leader. In an average year, UMEC completes 25+ projects utilizing BIM. To ensure smooth project delivery, UMEC experts collaborate with key construction team members at our dedicated 3D/BIM coordination facility and across EMCOR Group, Inc., where, collectively, the Company has a BIM/CAD intelligence network that is 300+ strong.

During these meetings, which are held before ground is broken, we build the computer-aided design (CAD), integrated graphics, and data system needed to assess a facility through three-dimensional visualization. This enables us to:

- » Identify and resolve constructability issues early
- » Evaluate various system and equipment options to find the best solutions
- » Develop efficient trade and purchasing schedules
- » Maximize prefabrication opportunities
- » Coordinate scheduling
- » Reduce costs by eliminating rework
- » Optimize safety

When the building is turned over to the owner, BIM data helps enable more efficient facility management. The goal is timely, cost-effective project completion and delivery.



Our goal in getting involved early in the planning stage is to help further ensure a client's project is completed on time and on budget. Our aim is to provide our clients with the elite commercial plumbing, piping, HVAC, and mechanical systems UMEC in Arizona is known for.





# University Mechanical & Engineering Contractors

An EMCOR Company

## What can we do for you?

### UMEC in Arizona

1200 North Sickles Drive  
Tempe, AZ 85281

T 480.921.0903

F 480.921.1413

Brad Thornton, President & CEO  
Pete Novak, EVP & CFO

[www.umec-az.com](http://www.umec-az.com)

## Harnessing the Power of a Fortune 500® Leader

A Fortune 500® company, EMCOR Group, Inc. (NYSE: EME) is a leader in mechanical and electrical construction, industrial and energy infrastructure, and building services. EMCOR specializes in planning, installing, operating, maintaining, and protecting the sophisticated and dynamic systems that create facility environments.

This includes systems such as electrical, mechanical, lighting, air conditioning, heating, security, fire protection, and power generation. With over 180 locations and approximately 33,000 skilled employees, EMCOR works in virtually every sector of the economy for a diverse range of businesses, organizations, and government agencies.

## Safety that Beats the National Average

EMCOR's safety performance consistently remains strong year after year with a current rate that surpasses competitors 60-75% and ranks 66% lower than the Bureau of Labor Statistics industry average.

(Source: Bureau of Labor Statistics Industry Average for Specialty Contractors NAICS 238, 2012-2017)



 **University Mechanical**  
& Engineering Contractors  
An EMCOR Company