

# 2nd International Conference & Exhibition on Industrial Engineering

Date & Venue: November 16-18, 2015 in Dubai, UAE

(Theme: Contemporary Advances and Innovations in Industrial Engineering)

## Summary

Industrial Engineering-2015 welcomes attendees, presenters, and exhibitors from all over the world to Dubai, UAE. We are delighted to invite you all to attend and register for the "2nd International Conference & Exhibition on Industrial Engineering (Industrial Engineering-2015)" which is going to be held during November 16-18, 2015 in Dubai, UAE.

The organizing committee is gearing up for an exciting and informative conference program including plenary lectures, symposia, workshops on a variety of topics, poster presentations and various programs for participants from all over the world. We invite you to join us at the **Industrial Engineering-2015**, where you will be sure to have a meaningful experience with scholars from around the world. All members of the Industrial Engineering-2015 organizing committee look forward to meeting you in Dubai, UAE.

For more details please visit- <http://industrialengineering.conferenceseries.com/>

## Importance & Scope

Industrial Engineering is concerned with the design, improvement and installation of integrated systems of men, materials and equipment. It draws upon specialized knowledge and skill in the Mathematical, Physical and Social Sciences together with the principles and methods of engineering analysis and design to specify, predict and evaluate the results to be obtained from such systems. In lean manufacturing systems, Industrial engineers work to eliminate wastes of time, money, materials, energy, and other resources.

The scope of this conference is to facilitate knowledge transfer between industrial personnel and scientific researchers on the topics related to industrial engineering and expand the boundaries.

Industrial engineering is also known as operations management, systems engineering, production engineering, manufacturing engineering or manufacturing systems engineering; a distinction that seems to depend on the viewpoint or motives of the user. Industrial engineers use their knowledge and skills to improve systematic processes through the use of statistical analysis, interpersonal communication, design, planning, quality control, operations management, computer simulation, and problem solving.

Industrial Engineers work in many types of Industry:

- Aerospace & Airplanes
- Aluminum & Steel
- Banking
- Medical Services
- Military
- Ceramics
- Construction
- Consulting
- Mining
- Oil & Gas
- Plastics & Forming
- Electronics Assembly
- Energy
- Retail
- Shipbuilding
- Forestry & Logging
- Insurance

- Entertainment
- Transportation

## Why Dubai?

Dubai is the most populous city and emirate in the United Arab Emirates (UAE), and the second largest (4,114 km<sup>2</sup>) emirate by territorial size after the capital, Abu Dhabi. Dubai has a fascinating history and a vibrant heritage that provides visitors an intriguing glimpse into Arabian culture. Dubai has emerged as a cosmopolitan metropolis that has grown steadily to become a global city and a business and cultural hub of the Middle East and the Persian Gulf region. Today, Dubai has emerged as a global city and business hub of the Persian Gulf region.

Dubai has changed dramatically over the last three decades, becoming a major business centre with a more dynamic and diversified economy. Dubai enjoys a strategic location and serves as the biggest re-exporting centre in the Middle East. The International Herald Tribune has described it as "centrally-planned free-market capitalism." The Dubai economy enjoys a competitive combination of cost, market and environmental advantages that create an ideal and attractive investment climate for local and expatriate businesses alike. In fact, these advantages not only rank Dubai as the Arabian Gulf's leading multi-purpose business center and regional hub city, but they place it at the forefront of the globe's, dynamic and emerging market economies.

## Conference Highlights:

- Industrial Engineering
- Manufacturing Engineering
- Healthcare Engineering and Management
- Civil and Environmental Engineering
- Ergonomics
- Robotics
- Supply Chain Management & Logistics
- Environmental Impact of Industrial Engineering

## Why to attend???

**Meet Your Target Market** With members from around the world focused on the field of Industrial Engineering; this is your single best

opportunity to reach the largest assemblage of participants from the global industries. By holding this international conference on Industrial Engineering OMICS Group aims to enrich the field of engineering by introducing new advances in the field of research and by presenting the latest technologies that will help all those working in this field to advance their knowledge in the above-mentioned aspects. Sessions of the conference includes topics dealing with optimization of complex processes and systems like **Industrial Engineering**. Health Care Engineering is included to discuss various approaches for maintenance of health care industry including dentistry, pharmacy, and medicine. Ergonomics session to understand the adaptability of humans to other elements of the system. Robotics the new technology to share knowledge about application of robots. Logistics session is the one to discuss the flow of goods from the point of production to point of consumption. Supply Chain Management and Knowledge Management are the essential ones as former one deal with proper flow of goods and latter dealing effective usage of organizational knowledge.

#### **A Unique Opportunity for Advertisers and Sponsors at this International event:**

[http://omicsgroup.com/conferences/ACS/conference/pdfs/Industrial-Engineering-2015\\_Sponsorship.pdf](http://omicsgroup.com/conferences/ACS/conference/pdfs/Industrial-Engineering-2015_Sponsorship.pdf)

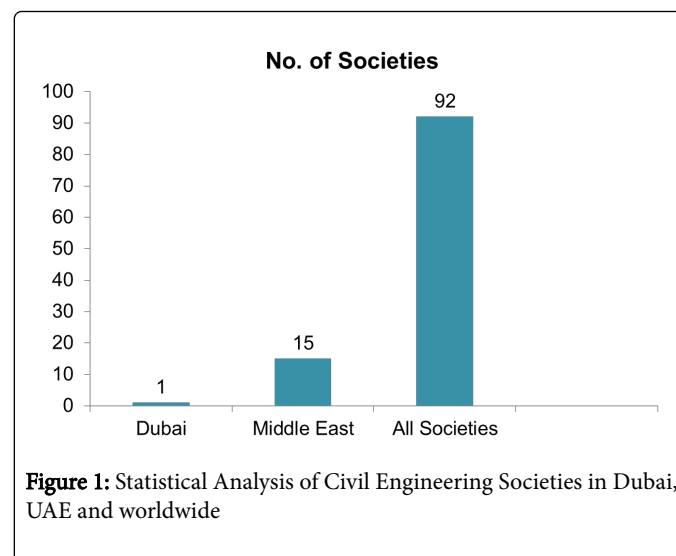
### **Major Societies and Associations around the Globe**

- Institute of Industrial Engineers
- Human Factors & Ergonomic Society
- Institute for Operation Research and The Management Science
- American Society of Safety Engineers
- Society for Manufacturing Engineers, SME
- Canadian Society for Engineering Management
- Society of Operations Engineers
- Institute of Healthcare Engineering and Estate Management
- Indian Institution of Industrial Engineering (IIIE)
- INCOSE - International Council on Systems Engineering

### **Major Societies and Associations in Middle East**

- Society of Engineers-UAE
- Association of Engineers (Gaza (Palestine))
- Bahrain Society of Engineers (Bahrain)
- Egyptian Engineering Association (Egypt)
- Federation of Sudanese Engineers (Sudan)
- Iraqi Engineering Union (Iraq)
- Jordanian Engineers Association (Jordan)
- Kuwait Society of Engineers (Kuwait)
- Oman Society of Engineers (Oman)
- Palestinian Engineers Association - Jerusalem Center (Palestine)

### **Statistical Analysis of Associations**



### **Target Audience:**

Industrial Engineering-2015 will comprise of Keynote sessions, Speaker sessions, Young Research Forum, Poster sessions and best poster awards during the three days of the conference. The attending delegates include renowned and prominent expertise from the respective fields along with Editorial Board Members of featured OMICS Group Journals. This meeting is a peerless opportunity to the participants from Research centers, Universities, and Institutes to interact and build a network with the pioneers in the field of Industrial Engineering.

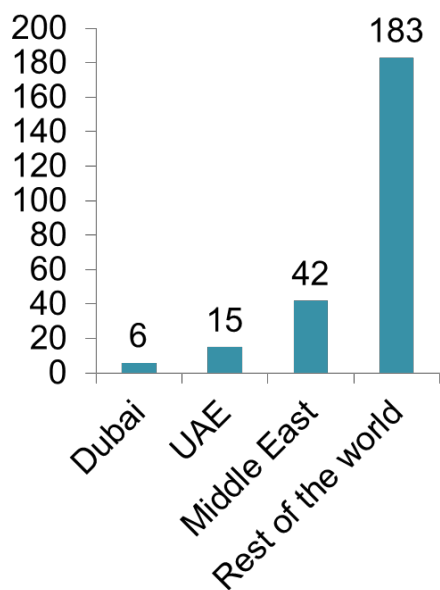
### **Top Universities in Dubai:**

- American University of Sharjah
- Canadian University of Dubai
- Jumeira University
- Manipal University, Dubai Campus
- EADA Business School

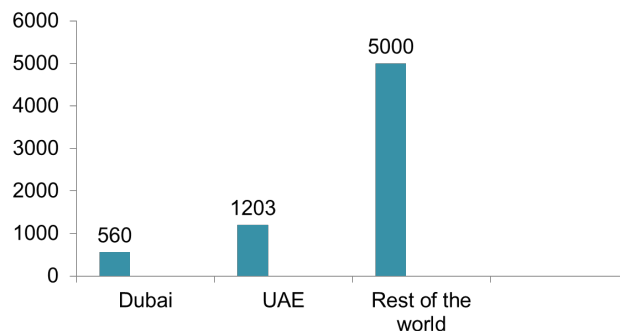
### **Top Universities in UAE:**

- UAE university
- Masdar Institute of Science and Technology
- Khalifa University
- University of Sharjah
- Abu Dhabi University

### No. of Universities



**Figure 2:** Statistical Analysis of universities in Dubai, UAE and worldwide



**Figure 3:** Statistical Analysis of companies in Dubai, UAE and worldwide

## Companies Associated with Industrial Engineering

### Companies Worldwide:

- Anheuser-Busch Inc.
- Bose Corp.
- Coca-Cola
- City of Fort Worth
- Deere & Co.
- Dell, Inc.
- Estee Lauder Inc
- Federal Aviation Administration
- Hasbro
- Hershey Foods Corp.
- Honda of America Manufacturing
- Johnson & Johnson
- Kraft Food
- Lockheed Martin Missiles & Fire Control
- McDonald's Microsoft
- Motorola
- NASA Kennedy Space Center
- Naval Surface Warfare Center
- Nike Inc.
- Sony Disc Manufacturing
- Texas A&M University
- Toys R Us
- Wal-Mart
- Walt Disney World

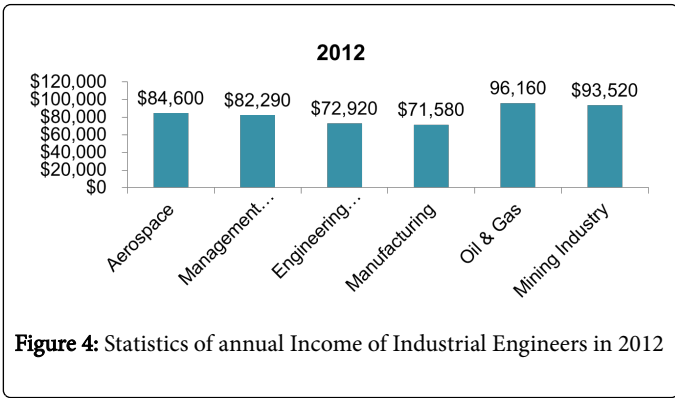
### Software used in Industrial Engineering:

- **Analytical or scientific software** — DaxiomStatMost; ETA Dynaform; Windward Technologies GRG2; Workcell simulation software
- **Computer aided design CAD software** — Autodesk AutoCAD software; International TechneGroupIGESworks; Main Injector Neutrino Oscillation Search MINOS software ; SolidWorks CAD software
- **Development environment software** — Microsoft Visual Basic; Microsoft Visual Basic Scripting Edition VBScript; Microsoft Visual Studio; National Instruments LabVIEW
- **Industrial control software** — Allen Bradley PanelView; Computer numerical control CNC software; Human machine interface HMI software; NuproCastView
- **Program testing software** — Logic programming software; Rockwell RSLogix; User interface design software
- **Object or component oriented development software** — C++; Sun Microsystems Java
- **Materials requirements planning logistics and supply chain software** — Materials requirements planning MRP software; Production scheduling and planning software; Supply chain capacity planning software
- **Project management software** — Microsoft Project; Process reengineering software; Yield management systems
- **Inventory management software** — Manhattan Associates PkMSPickticket; Oracle Retek; Warehouse management software

### Glance at Market of different industries related to Industrial Engineering:

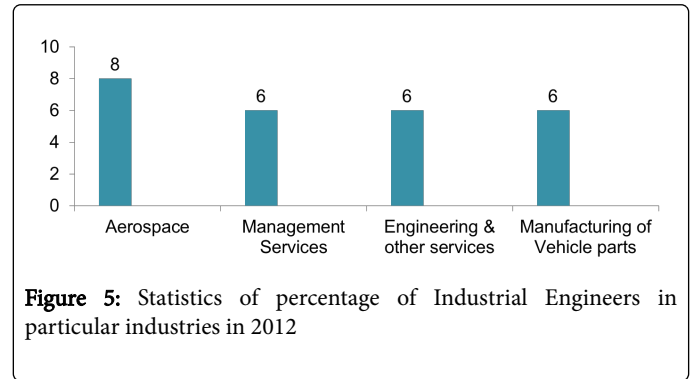
The median annual wages for industrial engineers in the top five industries employing these engineers were as follows:

- Aerospace product & parts Manufacturing- \$84,600
- Management Companies- \$82,290
- Architectural, engineering and related services-\$72,920
- Motor Vehicle parts manufacturing- \$71,580
- Oil and Gas- \$96,160
- Mining- \$93,520



**Figure 4:** Statistics of annual Income of Industrial Engineers in 2012

- Architectural, engineering and related services-6%
- Motor Vehicle parts manufacturing-6%
- Petroleum refining-3%



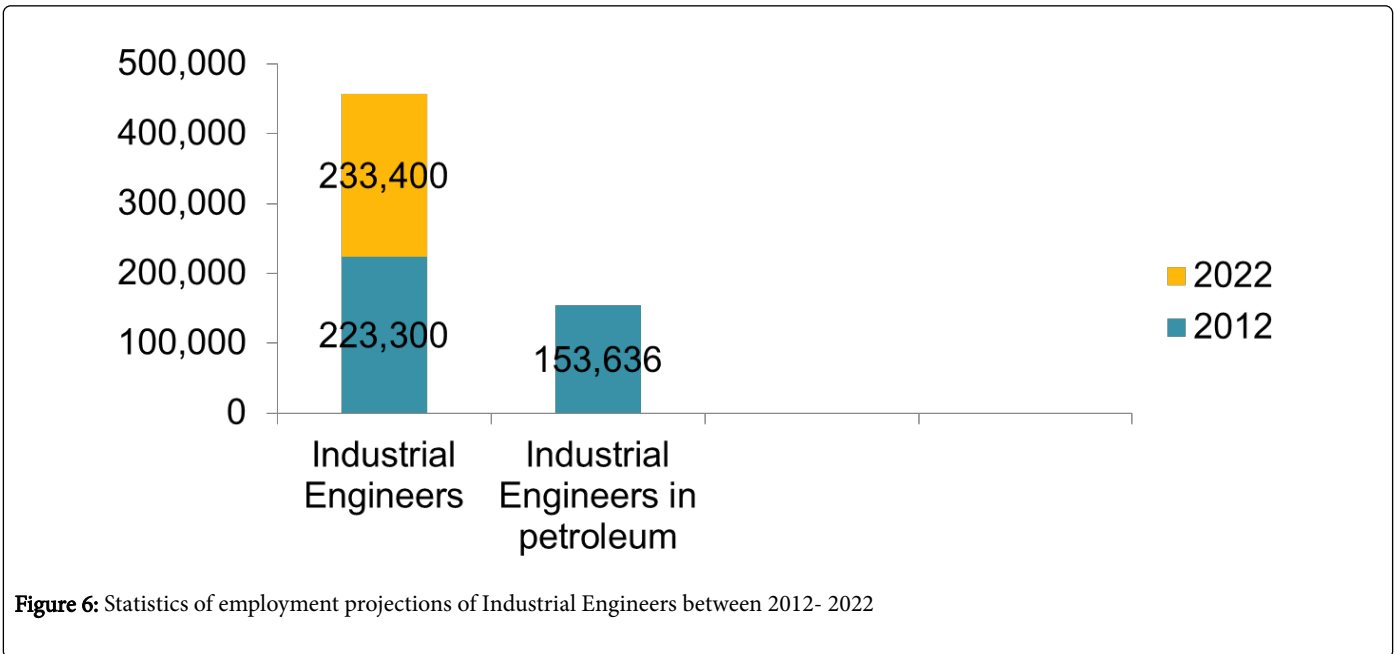
**Figure 5:** Statistics of percentage of Industrial Engineers in particular industries in 2012

The industries that employed the most industrial engineers in 2012 were as follows:

Aerospace product & parts Manufacturing- 8%

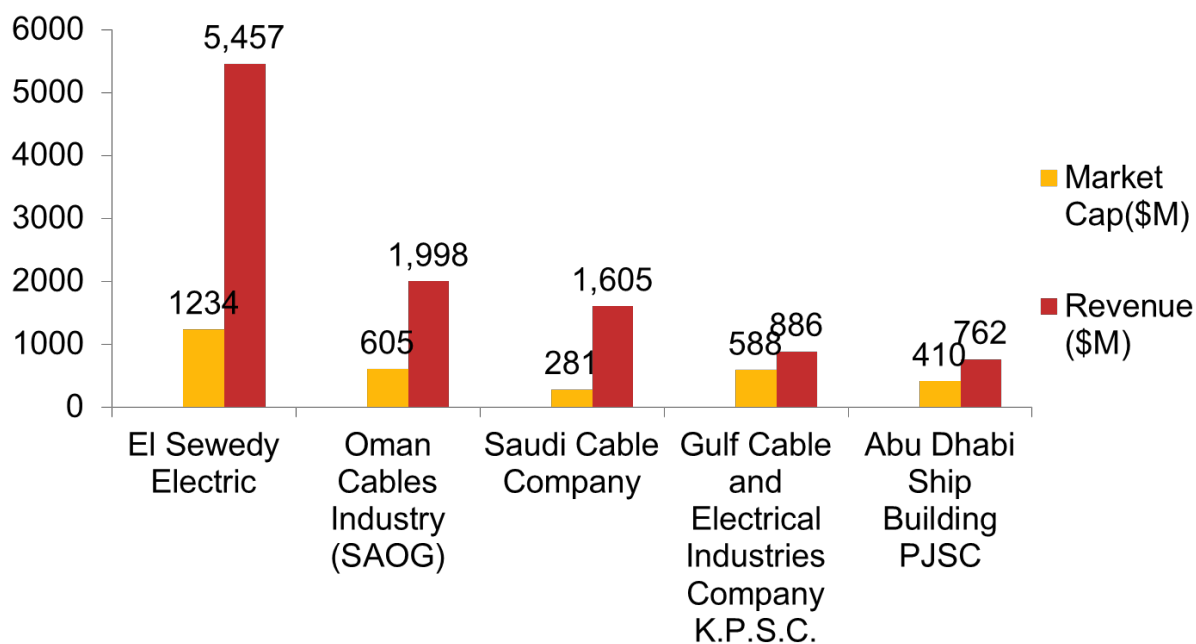
- Machinery Manufacturing- 8%
- Management Companies-6%

**Employment projections of Industrial Engineers between 2012-2022:**



**Figure 6:** Statistics of employment projections of Industrial Engineers between 2012- 2022

**Statistical Analysis for few manufacturing firms in Middle East:**



**Figure 7:** Statistical analysis of few companies in Middle East

## References

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