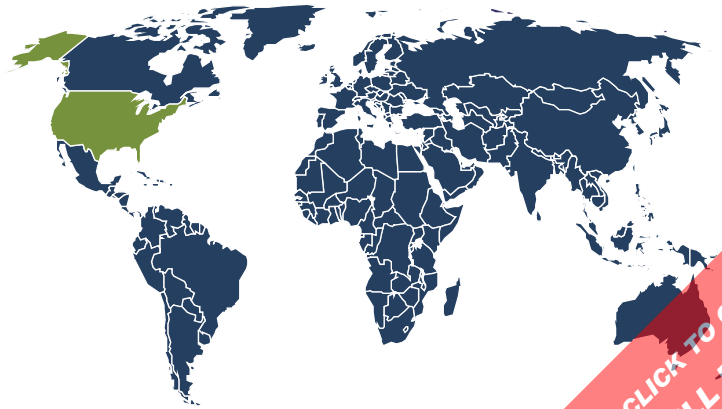




Freedonia Focus Reports  
US Collection

# Engineering Services: United States

November 2016



## Highlights

### Market Environment

Historical Trends | Key Economic Indicators | Regulatory Factors  
Construction Outlook

### Segmentation and Forecasts

Markets | Sectors

### Industry Structure

Industry Composition and Characteristics | Additional Companies Cited

### Resources

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## ABOUT THIS REPORT

### Scope & Method

This report forecasts US engineering service revenues in US dollars to 2020. Total revenues are segmented by market in terms of:

- industrial and manufacturing
- power generation and distribution
- commercial, public, and institutional
- transportation infrastructure
- other engineering projects such as municipal utilities, hazardous and industrial waste systems, and telecommunications and broadcasting systems
- other revenue sources such as construction services, engineering advisory and drafting services, and surveying and mapping services.

US engineering service providers' revenues include income from all domestic locations primarily engaged in providing engineering services. Thus, receipts from other activities performed by these locations are included in total revenues. Receipts from establishments that may provide such services but are primarily engaged in a different activity are excluded from this report.

Total revenues are also segmented by private versus public sector.

To illustrate historical trends, total revenues and the various segments are provided in annual series from 2005 to 2015.

This report quantifies trends in various measures of growth and volatility. Growth (or decline) expressed as an average annual growth rate (AAGR) is the least squares growth rate, which takes into account all available datapoints over a period. The volatility of datapoints around a least squares growth trend over time is expressed via the coefficient of determination, or  $r^2$ . The most stable data series relative to the trend carries an  $r^2$  value of 1.0; the most volatile – 0.0. Growth calculated as a compound annual growth rate (CAGR) employs, by definition, only the first and last datapoints over a period. The CAGR is used to describe forecast growth, defined as the expected trend beginning in the base year and ending in the forecast year. Readers are encouraged to consider historical volatility when assessing particular annual values along the forecast trend, including in the forecast year.

Key macroeconomic indicators are also provided with quantified trends. Other various topics, including profiles of pertinent leading suppliers, are covered in this report. A full outline of report items by page is available in the [Table of Contents](#).

## Sources

*Engineering Services: United States* (FF95035) represents the synthesis and analysis of data from various primary, secondary, macroeconomic, and demographic sources including:

- firms participating in the industry, and their suppliers and customers
- government/public agencies
- national, regional, and international non-governmental organizations
- trade associations and their publications
- the business and trade press
- indicator forecasts by The Freedonia Group
- the findings of other reports and studies by The Freedonia Group.

Specific sources and additional resources are listed in the [Resources](#) section of this publication for reference and to facilitate further research.

Special thanks are extended to Professor Andrew Gross of Cleveland State University for his review and comments.

## Industry Codes

The topic of this report is related to the following industry codes:

NAICS/SCIAN 2007		SIC	
North American Industry Classification System		Standard Industry Codes	
23	Construction	1081	Metal Mining Services
541330	Engineering Services	1382	Oil and Gas Field Exploration Services
541360	Geophysical Surveying and Mapping Services	1481	Nonmetallic Minerals Services, Except Fuels
541370	Surveying and Mapping (except Geophysical) Services	15	Building Construction General Contractors and Operative Builders
541420	Industrial Design Services	16	Heavy Construction Other Than Building Construction Contractors
541512	Computer Systems Design Services	17	Construction Special Trade Contractors
541620	Environmental Consulting Services	7373	Computer Integrated Systems Design
		7379	Computer Related Services, NEC
		7389	Business Services, NEC
		8711	Engineering Services
		8713	Surveying Services
		8748	Business Consulting Services, NEC

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### The Freedonia Group

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#### Related Industry Studies

*3471 Circuit Breakers & Fuses*, September 2016  
*3423 World Material Handling Equipment*, July 2016  
*3376 Midstream Oil & Gas Equipment*, February 2016  
*3337 World Mining Equipment*, November 2015  
*3261 HVAC Equipment*, March 2015

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### Agencies & Associations

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 Institute of Electrical and Electronics Engineers  
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