



Web API: Get Employment Patterns

The 'Get Employment Patterns' API enables developers to input an occupation and get data about the industries in which at least two percent of the workers in this occupation are employed. The API accepts O*NET and SOC Codes and Titles.

About this data

The [Employment Patterns](#) tool demonstrates how this API can be used. For more information about the data, please visit that tool's [help page](#).

Resource URL

<https://api.careeronestop.org/v1/employmentpatterns/{userId}/{keyword}/{sortColumns}/{sortDirections}/{startRecord}/{limitRecord}>

Try this Web API

Example Code

C#

Java

```
using System;

using System.Net.Http;

using System.Net.Http.Headers;

using System.Threading.Tasks;

namespace CareerOneStopAPISample
{
    class Program
    {
    }
```

Request Parameters

Refer to the following table for a list of the required and optional request parameters. All parameter names and values are case sensitive. Important: You must provide all required parameters. Submitting an empty request does not return all possible results; an empty request returns an error.

Parameter Name	Value	Required?	Description
API Token	String	Yes	This value is the unique API Token provided during the CareerOneStop Web API registration process.

Parameter Name	Value	Required?	Description
userId	String	Yes	This value is the unique UserID provided during the CareerOneStop Web API registration process.
keyword	String	Yes	This value accepts a search term, which must be an occupation (O*NET or SOC title or code).
sortColumns	String	Yes	This is the column by which the data should be sorted. Acceptable values include: 0 - relevance (default) PCT - Percent ("Share") of workers in this occupation who are working in this industry IND - Industry title EE - Estimated employment, for the earlier year PE - Projected employment, for the later year PCH - Percent change
sortDirections	String	Yes	Sort Direction Acceptable values include: 0 - Ascending (default) ASC - Ascending DESC - Descending
startRecord	Integer	Yes	This value is to set the starting record. Default value 0 is for the first record.
limitRecord	Integer	Yes	This value sets the limit of the maximum number of records to be returned. Default value is 10.
enableMetaData	boolean	Optional	Use this parameter to determine whether to include MetaData in the response. True- Include metadata (default) False - exclude metadata

Response Structure

JSON	XML
<pre>"EstimatedEmployment": 88800, "PercentChange": 0.5, "NumberChanged": 500 }, { "IagCode": "622", "Pctestocc": 6, "Industry": "General medical and surgical hospitals; local", "MatInCode": "622103", "ProjectEmployment": 189700, "EstimatedEmployment": 183100, "PercentChange": 3.6, "NumberChanged": 6500 }, {</pre>	

Response Parameters

Name	Description	Type	Parent
RecordCount	Record Count	Integer	
SocTitle	Title of the SOC occupation corresponding to (or equalling) the user's input. If user input was an O*NET detail occupation, this field will be the corresponding SOC title.	String	
SocCode	The code for the SOC occupation corresponding to (or equalling) the user's input. If user input was an O*NET detail occupation, this field will be the corresponding SOC title.	String	
Code	Code of the occupation that was input. Could be O*NET or SOC.	String	
Title	Title of the occupation that was input. Could be O*NET or SOC.	String	
EstYear	Estimated employment	Decimal	Result
ProjYear	Projected employment	Decimal	Result
Request	The request parameter	Object	
Keyword	The user input itself; could be words or a code.	String	Request
SortColumns	Column by which the data is sorted. Acceptable values include PCT - Share of this occupation working in this industry IND - Industry title EE - Estimated employment, for the earlier year PE - Project employment, for the later year PCH - Percent change	String	Request
SortDirections	Sort Direction. Default is 0=ASC. Acceptable values include: ASC - Ascending DESC - Descending	String	Request
StartRecord	Which record to start with, for this response? To start with the first record (first page), StartRecord is 0. Default is 0.	Integer	Request
LimitRecord	The number of records to return in this call. Default is 10.	Integer	Request
Result	List of industries in which at least 2% of the workers in this occupations are employed.	Object	
IagCode	BLS offers "Industries at a Glance" (IAG), profiles for many industries, at 2-digit ("supersector") and 3-digit ("sector") levels. IagCode is the 2- or 3- digit code for which BLS publishes a profile corresponding to this "Result". CareerOneStop uses this code to construct a URL that we hyperlink from the industry title. For example, www.bls.gov/iag/tgs/iag61.htm	String	Result
Pctestocc	Share of Workers in this occupation that work in this industry. In the BLS EMP data, this is PctEstOcc.	Decimal	Result
Industry	Industry name	String	Result
MatInCode	Industry code, as used in the "micro matrix" published by BLS Employment projections program.	String	Result

Name	Description	Type	Parent
ProjectEmployment	Projected employment (for the year 10 years past the year of the EstimatedEmployment).	Decimal	Result
EstimatedEmployment	Estimated Employment (for the earlier year).	Decimal	Result
PercentChange	Percent changed, between the two years	Decimal	Result
NumberChanged	Number changed, between the two years	Integer	Result
MetaData	Information about the source of the API	Object	
Publisher	Publisher of the API	String	MetaData
Sponsor	Sponsor of the API	String	MetaData
LastAccessDate	When the API was run, using Unix "epoch" format. Convert to date and time using a Unix epoch converter.	String	MetaData
CitationSuggested	If you use this data, CareerOneStop suggests you use this citation.	String	MetaData
DataSource	The data source object(s)	Object	MetaData
DataSourceName	Name of data	String	DataSource
DataSourceName	Name of data source	String	DataSource
DataSourceUrl	Url of data source	String	DataSource
DataLastUpdate	Date when CareerOneStop last updated this data	String	DataSource
DataVintageOrVersion	Version or vintage of the data	String	DataSource
DataDescription	Description of the data	String	DataSource
DataSourceCitation	Suggested citation for this data source	String	DataSource

Errors

Error/Status Code	Description
200	OK / Success. The request went through successfully and there is a response body.
400	Bad Request (Request was invalid or missing parameters)
401	Unauthorized. This error occurs specifically when authentication is required and has failed or has not yet been provided correctly. (ex: Invalid API Token)
404	This error will be shown in two scenarios 1) Not found - (An error occurred) and 2) Not found - (No data available)

Error/Status Code	Description
500	Internal Server Error. This error will occur when there is something critically wrong in the API call.



For information about jobs, training, career resources, or unemployment benefits call:
1-877-US2-JOBS (1-877-872-5627) or TTY 1-877-889-5627

For help using the CareerOneStop website:
info@careeronestop.org

CareerOneStop is sponsored by the U.S. Department of Labor, Employment and Training Administration

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