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This guide is a collection of resources that may be used towards the further education or development of a career in a Transportation specialization of Industrial Engineering. The resources in the document include databases, reference libraries, career directories, online communities and many more that provide the most updated information in the industries for its users. The documents collectively act as a bridge between the Transportation and Industrial Engineering industries and provide an overarching understanding of the fields.

Intended Audience and Assumptions Made

This Internet resource guide was designed to aid college-level students in a major related to Industrial Engineering, in addition to current Industrial Engineering Professionals whom are pursuing an occupation in the Transportation industry.

The context of the document assumes that the reader has some basic knowledge in the field of Industrial Engineering, its basic principles, and its involved fields, including but not limited to, Operations Research, Logistics, and Supply Chain Management.

Organization

The Internet Resource Guide is organized into four sections. The first section titled “Understanding Transportation Systems” provides a general overview of the transportation field directly related to an engineering perspective. The topic “Societies, Online Communities, & Publications” provides the reader with access to a network of professionals within the industry. The section “Digital Media & Reference Libraries” provides the most updated news and resources that can be found online for transportation professionals. Lastly, “Career Directories” contains resources that allow the user to discover potential careers, learn more about companies in the industry, as well as find current job listings within the field.

Tips for Using this Guide

The guide features many interactive hyperlinks throughout the document to help the user navigate the web more efficiently. To use this feature, simply hold the control button and click the blue hyperlink to be transferred to the reference.
The United States Department of Transportation’s website of Intelligent Transportation Systems is a database comprising of current research in the transportation sector. It aims to educate the public interested in futuristic modes of transportation, and provides information towards educational training courses and webinars in the field of Intelligent Transportation Systems [here](http://www.its.dot.gov/). The site also offers links that allow a user to search the National Transportation Library, provides fact sheets of today’s transportation, delivers information on public meetings and events regarding innovative transportation, and offers free downloadable U.S. DOT staff presentations and researched documents of the transportation industry.

The site also aims to connect its users with a “Tech Transfer” tab. Clicking on the “Online Knowledge Communities” link allows users to exchange ideas with each other and private sector group members, with a purpose to raise awareness about management and operations in the transportation industry.

**Tips:**
- A collection of animated videos can be found under the “Press Room” tab, with a link to “ITS Videos”. The videos here provide users with an animated representation of various technologies for a higher understanding of today’s transportation methods.
INFORMS

The Transportation Science and Logistics Society

https://www.informs.org/Community/TSL

INFORMS is an organization directly related to the Industrial Engineering field, abbreviated for the Institute for Operations Research and the Management Sciences. The organization serves to publish scholarly journals in the latest methods of O.R. analytics.

The website also features a section of journal publications found here. This area of the site features guest editorials and research articles written by credible professionals in the field and designed to share the research they conduct. The content related to transportation that ranges in a spectrum from forecasting the demand for electric vehicles, to an economic analysis of the future U.S. biofuel industry and supply chain network.

Joining the organization allows members to access a member directory that gives access to information of other members by name, location, organization and status, education, and much more. This is a great tool for networking within the field of Industrial Engineering.

Note: The site allows authors to publish their work given that submission guidelines are complied with and the work has been reviewed by the INFORMS organization for publication.
The American Society for Transportation and Logistics is an organization dedicated for transportation and logistics professionals in the engineering field. The society aims to provide students with opportunities to network and share ideas with others interested in the field, as well as establish a foundation for those students wishing to obtain a career in the industry.

The website can be navigated easily by selecting a category from the toolbar located along the top of the page. ASTL offers a wide array of content including membership information and scholarships for students, and provides news to those serving in the society. The society’s most notable features include the “Certifications” and “Education” tabs located on the toolbar. These essential tools provide step-by-step instructions regarding how an individual can go about earning various certifications and licensures in the field, including but not limited to Certification in Transportation and Logistics (CTL), Global Logistics Associates (GLA), and Distinguished Logistics Professionals (DLP).

The ASTL information brochure can be accessed here.

Tips:

- The membership fee to join the society is $30 and can be purchased by visiting the ASTL website.
The Institute of Transportation Engineers is an international association dedicated to the application of science and technology within the research, planning, design, operation, and development for future transportation. The site features a book store for individuals looking to purchase online and print texts, an employment center that provides an opportunity to see active listings in the transportation industry, as well as links to the Transportation Professional Certification Board Inc. for individuals interested in certifications and recognitions in the field.

For those looking to become actively involved in engineering and transportation, the organization features various councils and committees which can be found on the main toolbar under “Councils”. ITE utilizes this feature as a community site by a means to providing members with real-time discussions, presentations and reports, documents, newsletters, blogs, and community involvement projects.

Tips:
- The right side of the main page features various links that may be helpful for students. The “Student Programs” tab will redirect the user to a page for student membership information, student programs, and opportunities for awards, fellowships, and scholarships.
IHS GlobalSpec
IHS Engineering 360 – Digital Media for Engineering Professionals

http://www.globalspec.com

IHS Engineering 360 is the leading distributor of online media solutions, targeted specifically to professionals in engineering, technical science, industrial solutions, and manufacturing. It is a universal tool utilized by over 7.5 million engineering professionals in the industry. The site is a leading source of information about the newest technology processes and analysis, as it delivers trusted content through the interactive use of reference libraries, standards directories, and community forums and blogs.

To learn more about the transportation field of engineering, simply type “transportation” in the search box. The page will yield results divided into content under headers titled “News & Analysis”, “Products & Suppliers”, “Standards Library”, “Reference Library”, and “Engineering Community”. The material is organized chronologically in order to provide today’s engineers with the most updated sources of information.

Tips:
- The main page features a toolbar on the right side titled “Upcoming Events”. Browse through these listings to follow contemporary exploits in science and technology. The feature also allows its users to stream live feed of events and conferences from across the world.
Wiley Online Library
An Online Collection of Educational Resources

http://onlinelibrary.wiley.com/

The Wiley Online Library is a site that provides users with free online access to over 4 million articles, with 1,500 journals, 9,000 books, and endless content from abstracts, reference works, and databases. The site allows users to browse by field, search A-Z, or find content by simply typing in a search box. The main page provides links under the “Resources” that provide training tutorials, webinars, and user guides in all fields.

Wiley Online Library is known to feature online publications detailed to specific fields. One publication titled “Industrial Engineering Applications in Transportation” can be found by searching “Industrial Engineering” in the search box and scanning through the search results. To read the full content, click the highlighted link above. The publication’s information is organized in an overall summary as well as outlined by chapter. Wiley also provides users with an option to purchase the online volume or search for its availability at a local library.

Tips:
- Register with a profile on Wiley Online Library to save your searches and publications, receive email updates for new content and promotional offers, and to purchase individual volumes.
- Wiley offers a program called “Wiley Open Access”, which allows users to receive accreditation by publishing their own research and findings into an accessible network of high-quality journals.
O*NET Online

Career Exploration and Job Analysis

http://www.onetonline.org/

Onet Online is a world-renown website that provides the most in-depth information for almost every career in the workforce. This site is especially useful for individuals interested in learning more about the various career opportunities in the workplace.

The main site features tools that allow users to browse occupations via dropdown toolbars, or search for careers directly using a “Quick Search” feature by manually typing the title into the search box. In the event a user is unsure of which field he/she wishes to enter, Onet has a tool that allows users to complete a questionnaire, and then receive recommendations on which occupation(s) that may interest them most.

A summary report for Transportation Engineers can be found here. The content is organized by the occupation’s general tasks, tools & technology, knowledge, skills, abilities typically required by that job, wages & incentives, work activities, work context, work styles, work values, and the job zone in which one can expect to work in.

Tips:
- At the bottom of an occupation’s summary report, the website provides a feature to search for current job openings for that career on the web. Click the button that says “Find Jobs”. It will prompt you for your preference criteria. Once the content is filled in and submitted, the site will yield all job openings.
Hoover’s
The World’s Largest Business Directory

http://www.hoovers.com/

Hoover’s is the world’s largest business directory that provides access to over 100 million people and 85 million companies. The database requires a paid subscription in order to use its services, which includes unlimited access to companies, people, and industries. Hoover’s also features an “Optimizer” tool that transfers data into graphic analysis for more visually-appealing statistics. This tool may be most beneficial for individuals looking to learn more about a company’s mission statement, evaluate a company’s performance, or investigate the latest news and trends within that industry.

Searching for data on Hoover’s is simple and effective. The site is designed for a user to type the company, person, or industry of choice into the search box at the top of the page. The site yields an array of data, including company location, size, contact, key information, financials, key people, industry competitors, latest news, current stock market status, and more. Hoover’s goes a step further and provides industry information along the lines of recent developments, trends and opportunities, industry forecasts, and current business challenges.

Tips:
- A free trial may be requested by submitting personal information here, or by calling (855) 471-2716. Carrier charges may apply.
- Many colleges and universities provide their students with direct access to sites like Hoover’s. Check with your institution’s authorities or library personnel before purchasing a subscription.
EngineerJobs.com
The World’s Most-Visited Engineering Job Site

http://www.engineerjobs.com/

EngineerJobs.com is the world’s most-visited engineering job site with more than 300,000 engineering jobs its database among the U.S. and Canada. The site allows engineers to search for job openings, create a user profile, post resumes and other documents, and receive notifications when opportunities appear. It also caters to employers who wish to submit job opportunities. The site keeps all of its users updated by publishing online magazine articles containing the newest events and breakthroughs in modern engineering.

The main page allows users to search engineering jobs by a dropdown of engineering disciplines or by location. In the event that an individual may want to select Industrial Engineering from the list, he/she would simply click the corresponding text. The next page will find results with all job openings corresponding to the preferences submitted. The number of jobs can be narrowed using the taskbar on the left side of the page, which allows users to further define the search results. The content is organized with options of adding specific keywords, locations, experience level, and the date posted. An industrial engineering student interested in an internship related to transportation would search for the keyword “Transportation”, followed by the experience level “Internships”. The job openings are listed with job description, duties, qualifications, and a link to apply.

Tips:
- The “Advanced Search” feature allows the user to enter specific keywords to yield results that will include all, any, or none of the words.
- It is strongly recommended that you submit a resume in order to market yourself to employers. For help on writing a resume, visit your institution’s career services or search the internet for tips and examples.