

Knovel for Academia

Employers expect entry-level engineers to be well-prepared for their jobs and to help solve the increasingly complex engineering problems in today's world. Using the same engineering tools and resources as professionals in the field allows students to be better prepared for a technology-driven workplace and highly competitive job market.

Knovel delivers trusted, accessible and relevant answers and insights to accelerate foundational engineering knowledge, build expertise and prepare students for a career in Engineering.



“I advise using Knovel as [it gives] comprehensive coverage of all disciplines, making [it] a logical starting point.”

—Librarian, Australian University



Educators

Academics today juggle cutting-edge research and industry collaborations, as well as teaching and mentoring. Knovel provides access to knowledge from across disciplines integrated with an industry-leading information system—empowering educators to create strong academic programs and better train students for the future.



Students

Today, expectations from freshly graduated students are higher than ever before. Knovel's Dynamic content, trusted references, scientific literature and industry best practices are accessible through an intuitive user interface in a platform that is leveraged by top engineering firms around the world.



Essential answers

Over 65 Million interactive and searchable data points spread over 40 engineering subject areas PLUS Material databases covering everything from mechanical to chemical properties data, corrosion data and material properties.



Accelerated discoveries

Faster path to results by highlighting and suggesting a focused set of concepts, letting users narrow down from large, unfiltered Search Results.



Continuous access

The *Knovel ToGo* app grants mobile access to results, extending the reach of Knovel beyond the classroom and library.

“My challenge was to find relevant information regarding my research topic in a limited time frame. Knovel helped me find the results closest to what I was looking for, saving me time compared to other scientific databases.”

—Graduate Student, Netherlands University

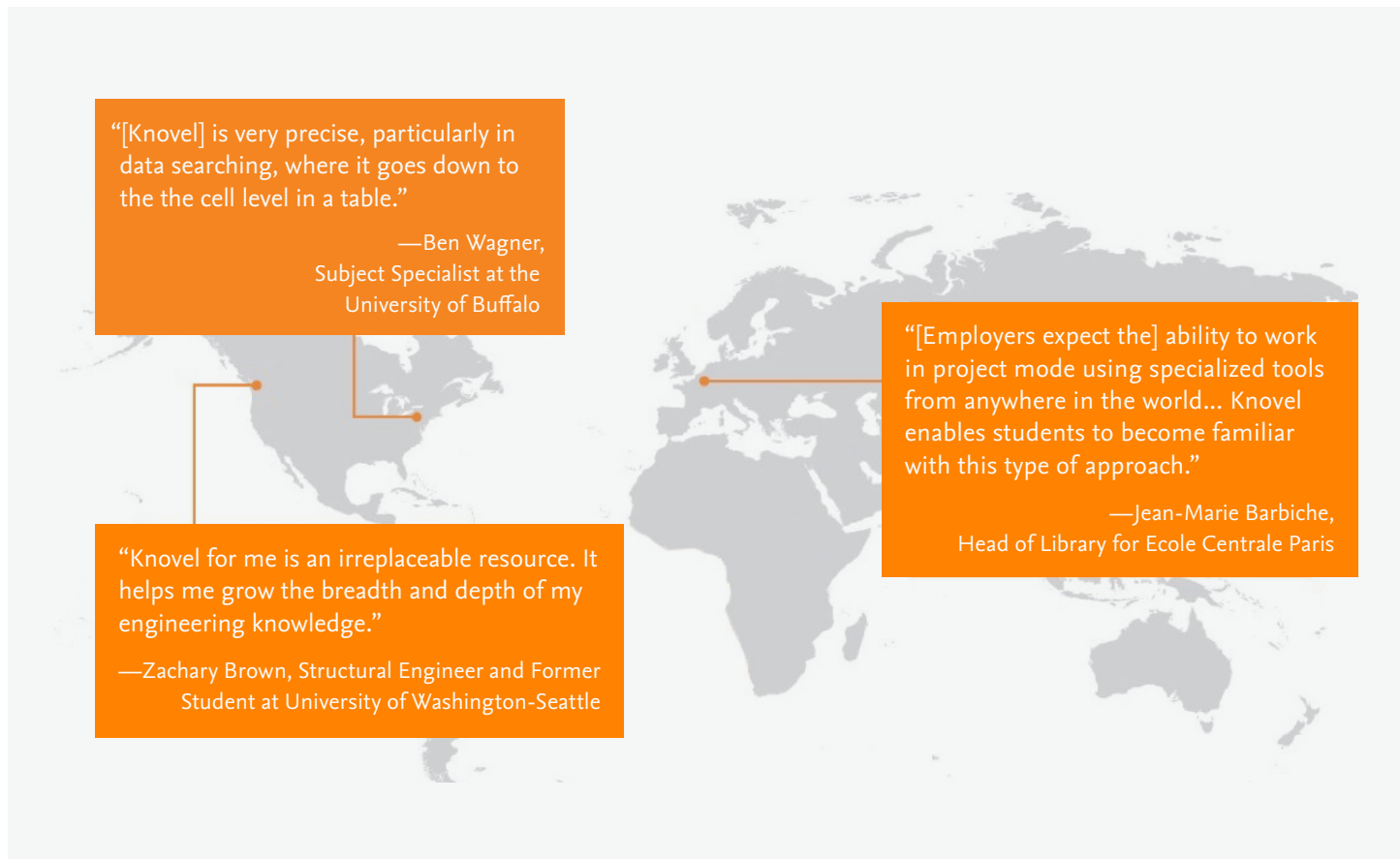


Figure 1: Knovel has proven essential for companies across industries and gives young engineers an upper hand as they move into the workforce.

Knovel gives students hands-on experience to solve problems.

- Discover essential engineering references
- Establish valid information sources and learn about best practices
- Gain hands-on experience exploring possible solutions to problems
- Use data to test ideas, assess feasibility and determine best course of action
- Build experience using a platform leveraged by top engineering firms worldwide



Boost student productivity

Enable students to accomplish more. Knovel grants access to the same content from trusted engineering references in print, but gives users the power to find and use that content more easily.



Let students be engineers

Experience promotes learning. Integrated into assignments, Knovel becomes a platform where students can evolve their problem-solving skills and learn about challenges of research, development and manufacturing.

Competitive research programs that engage industry.

Knovel supports research that engages industry:

- Smart search capabilities deliver answers and insights from across disciplines
- Productivity tools allow using, saving and sharing information with a few clicks
- A modern user interface provide a tailored and targeted search journey



A tailored subscription

Subscription to Knovel can be tailored. Only those subjects relevant to existing academic programs need to be included, and the menu of subscribed content can always be adapted.



Investing in success

Resource investments in academia must deliver a return. Knovel supports student learning outcomes, and augments the relevance of engineering programs.

85% of students agree Knovel helps them build knowledge in foundational engineering subjects

85%

70% of students agree Knovel helps them solve engineering problems for classroom assignments

70%

76% of educators agree that Knovel helps them better educate students

76%

According to TechValidate Knovel user survey, 2018

“[I] can’t imagine
research without Knovel.”

—MS Student, Drexel University

How Knovel delivers

Essential answers: relevant, tailored content throughout the search journey.

- Technical reference resources from 150+ publishers including AICHE/CCPS, NACE and more
- Interactive content including equations, graphs and tables
- 65M+ data points including material and chemical property data

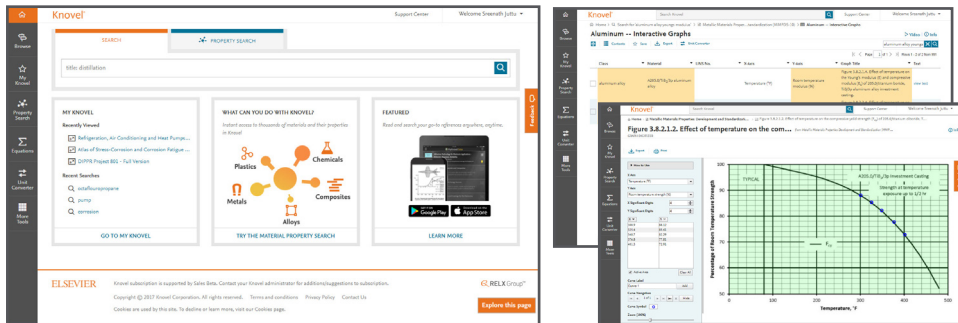


Figure 1: User-defined searches or viewed content, as well as tools like interactive graphs and a unit converter, are just a click away.

Accelerated discoveries: powerful search and processing capabilities.

- Text-based search eliminates the need to know complex taxonomies to find relevant results
- Property data search easily narrows down properties for specific conditions
- “Refine by” tool extracts engineering concepts to declutter results and discover connected content

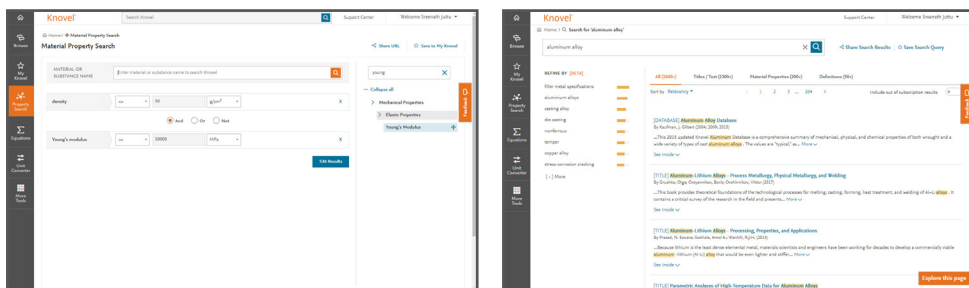


Figure 2: The powerful but intuitive query builder of Knovel's Property Search.

Figure 3: The unique “Refine by” tool highlights engineering concepts to quickly get relevant answers.

“Woah, this is cool! ... I can refine the search easily, it’s far more intuitive—better than Google!”

—Undergrad Sophomore Student (First time Knovel User)

How Knovel delivers

Continuous access: using Knovel content when and where answers are needed.

Knovel is designed for using information. Thus, plug-ins enable content interoperability with essential engineering tools and software like Autodesk Inventor and Excel. Furthermore, Knovel ToGo grants mobile access to results, extending the reach of insights beyond the classroom and library.

- Access to answers & insights on the go with the Knovel ToGo app
- Integrations with third party software like Autodesk Inventor and Microsoft Excel

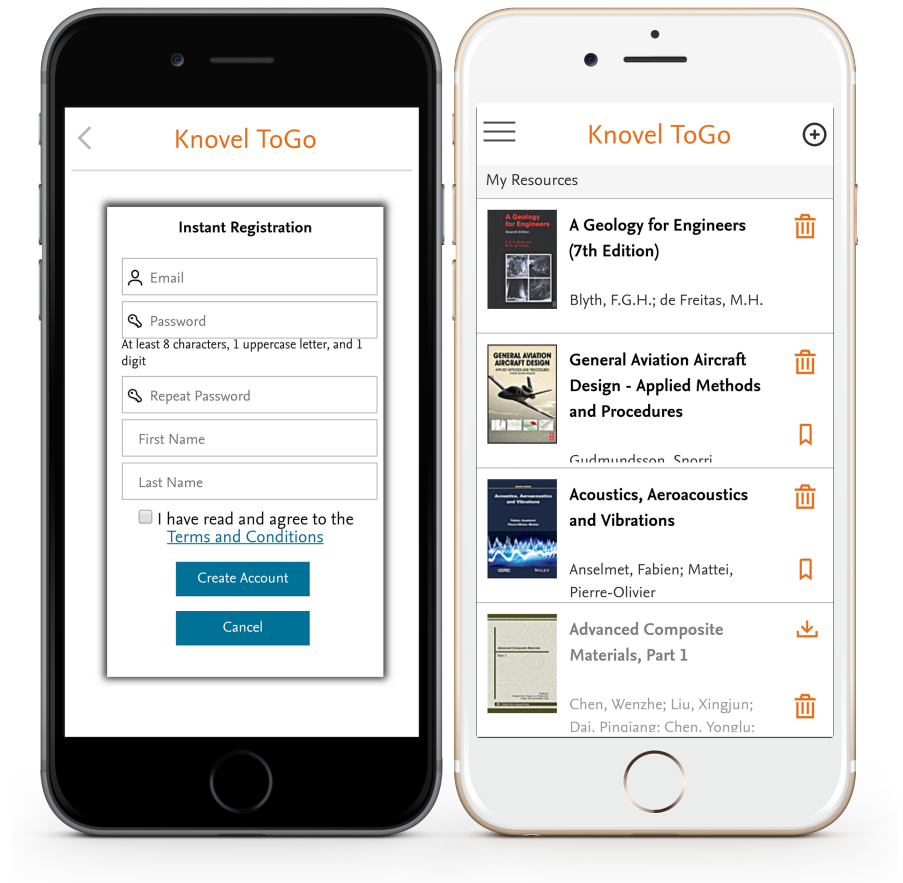


Figure 4: The Knovel ToGo app for Tablets & Smartphones is available on iOS (App Store) and Android (Play Store).



Knovel

Knovel is an engineering decision-support solution enabling engineers to solve problems faster. With powerful search and interactive analytical tools, engineers can confidently find answers to technical questions through best practice insights, validated equations and materials and substances data from more than 150+ providers. For more than 15 years, Knovel has helped thousands of engineers and researchers from leading companies and institutions around the world enhance research and productivity, achieve operational excellence, reduce costs and time to market, and build expertise.

For more information about Knovel,
visit www.elsevier.com/knovel

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Knovel At-A-Glance

Whether for Industry or Academia, Knovel quickly delivers trusted, accessible and relevant engineering answers and insights to build foundational engineering knowledge and solve problems with high business impact.



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“{Knovel} helped define physical & chemical properties of a solvent used for metals extraction that had limited available information elsewhere.”

—Process Engineer

Who uses Knovel?

700+ organizations across industry, academia and government



Fortune 500 companies in industries like Chemicals, Aerospace & Defense, Oil and Gas, Engineering Design & Construction, and Equipment Manufacturing use Knovel



Engineering & Technology Universities in the **Top 20 worldwide use Knovel***

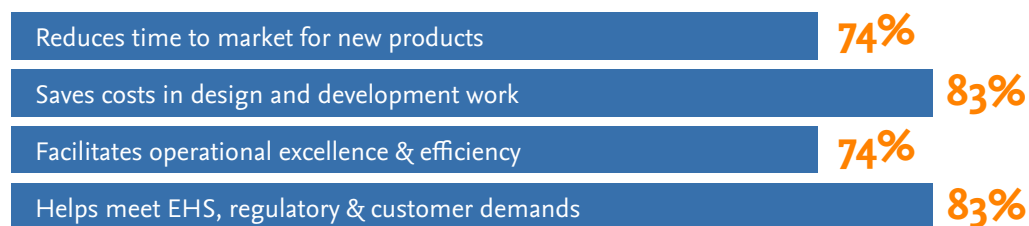


Engineers across disciplines and departments, including chemical, mechanical, process, manufacturing, project managers and EHS specialists

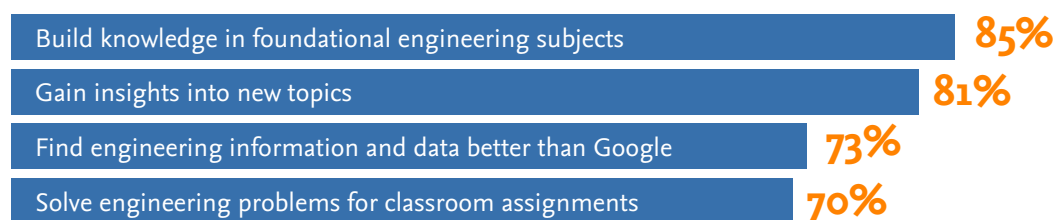
Why do they use Knovel?

Hundreds of our users have shared specific reasons why they turn to Knovel:

Corporate



Academic



*According to U.S. News and World Report



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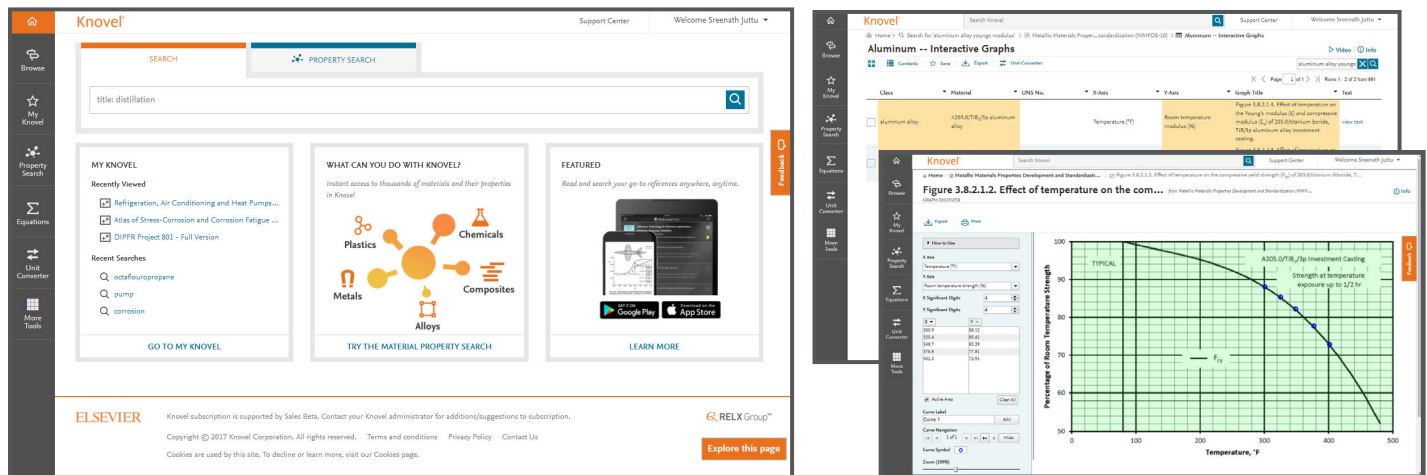


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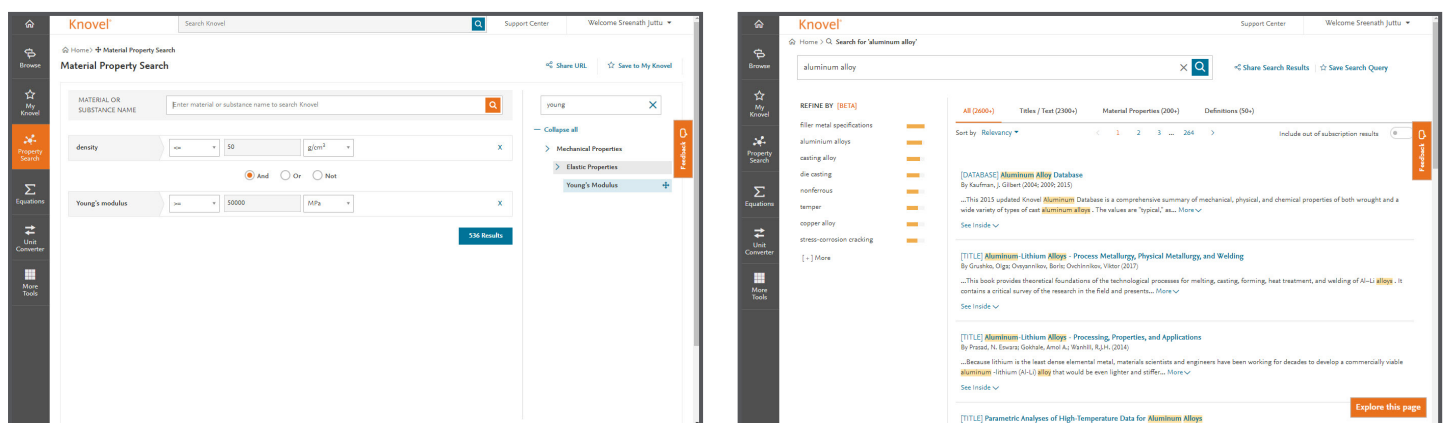


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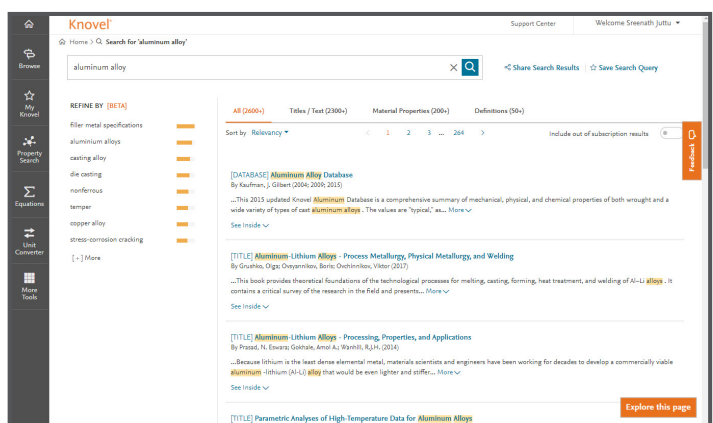


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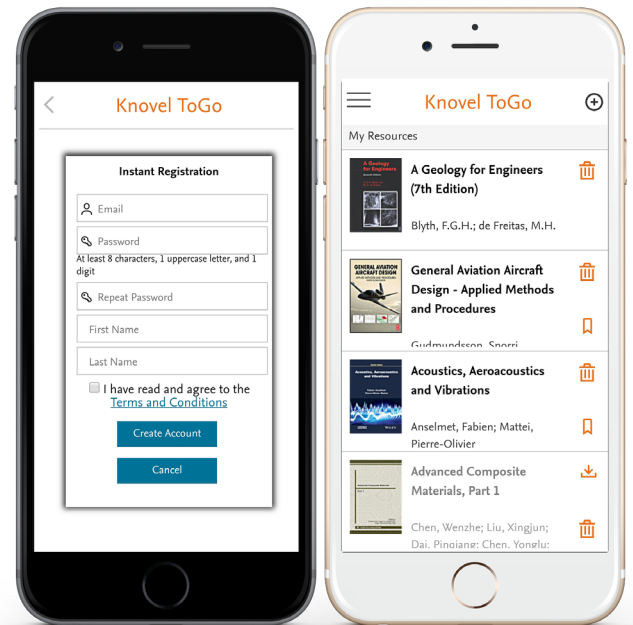
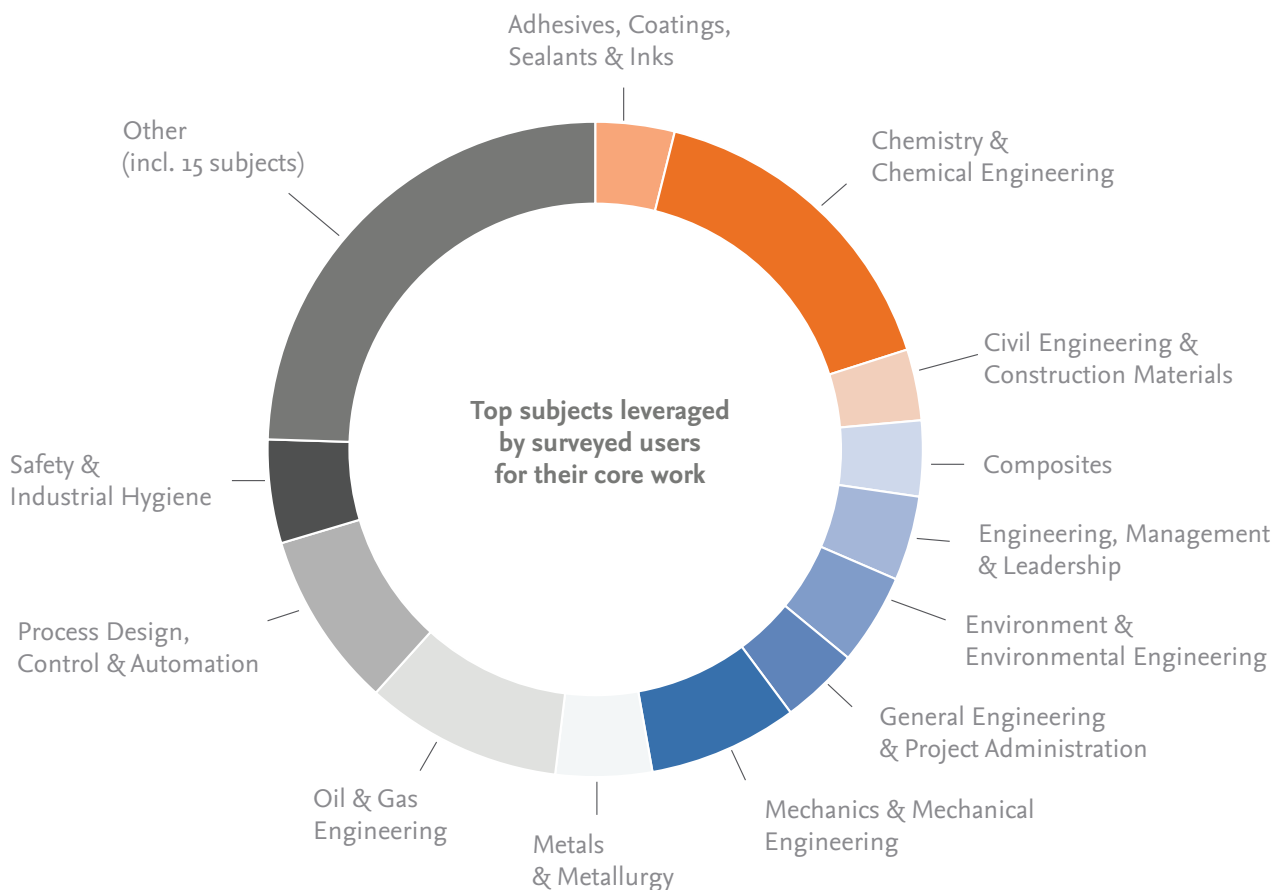


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Source: 2017 Knovel user survey via TechValidate.