THE TOP 15 SUPPLY CHAIN UNIVERSITIES

A RECRUITER’S GUIDE TO FUTURE TALENT

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SCM World
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Talent acquisition is a significant challenge for modern businesses. SCM World’s Chief Supply Chain Officer (CSCO) Study 2014 shows that 43% of supply chain executives say talent acquisition and development has become harder in the past two years. As data throughout this report will show, for the next generation university recruitment is no longer a game where winners are those who just pay the most.

Feeding the entry- and graduate-level pipeline with the right skills and mix of expertise is essential for long-term sustainability of your talent programmes. SCM World conducted this research with that goal in mind.

We have combined quantitative data on talent from our CSCO Study 2014 with interviews of leading academic institutions and of 20 of today’s brightest supply chain students.

Each of the Top 10 universities from our 2014 report recommended two students to take part in this research. This group includes a mix of undergraduate and postgraduate students either in the middle of their degree course or who have recently graduated. What they shared with us provides a unique insight into the zeitgeist of today’s up-and-coming supply chain professionals.

We have included their comments and perspectives throughout this report, and each of their CVs at the back. As you will read, the future supply chain talent is indeed bright.

By intersecting industry needs with a real-time assessment of the university talent landscape by those most directly involved – professors and students – we have compiled this recruitment guide for CSCO’s, chief operating officers and their human resources partners.
Word cloud from interviews with supply chain students

**THE FUTURE**
- job rotation
- leadership
- travel
- functional skills
- experience
- diversity
- consulting
- impact
- variety
- global
- connect the dots
- opportunity
- solve
- problems
- collaboration
- networking
- optimize
- inventory
- forecasting
- strategy
- procurement
- big data
- analytics
- management
- big warehousing
- risk
- sourcing
- internet of things
- sustainability

**MOTIVATIONS**
- impact
- the world
- variety
- global
- connect the dots
- opportunity
- solve
- problems
- collaboration
- networking
- optimize
- inventory
- forecasting
- strategy
- procurement
- big data
- analytics
- management
- big warehousing
- risk
- sourcing
- internet of things
- sustainability

**INTERESTS**
- Zara
- Apple
- Patagonia
- Argos
- Starbucks
- Wal-Mart
- Nike
- John Lewis

Source: SCM World
THE BEST SUPPLY CHAIN UNIVERSITIES

SCM World’s methodology to identify the top supply chain universities is painfully simple. In fact, we modeled our analysis on the Net Promoter Score (NPS) methodology, which derives its value from its simplicity.

Our only goal with the ranking is to identify which universities are “top of mind” for supply chain executives when they are asked to select “markers of talent”.

We collected this data in mid-2014 from SCM World community members around the world: 528 voters took the time to manually type their responses, with over 1,300 votes cast and more than 150 universities mentioned. Voting nearly doubled the rate of those who responded in 2013.

One thing is quite clear: the supply chain community is passionate about the university talent pipeline.

THE TOP 15

The 528 voters included a global population: 49% from North and South America, 36% from Europe, Middle East & Africa, and 15% from Asia and Australia. Even so, 13 of the Top 15 are American universities.

While individual rankings did shift around, the Top 15 list for 2015 is largely consistent with the results from 2014, as expected. However, there are some notable results in the 2015 numbers:

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<tr>
<th>RANK</th>
<th>UNIVERSITY</th>
<th>WEIGHTED TOTAL SCORE</th>
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<th>#2 VOTES</th>
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Source: SCM World Chief Supply Chain Officer Study 2014

n=528
• Michigan State remains #1 by a large margin. This time around, 63 of the 528 voters (12%) selected MSU as their #1 marker of talent. Previously, 28 of 331 (8%) made the same choice.

• Penn State edges out MIT for #2. In 2013, 16 points separated these two, whereas, this time, PSU is ahead by 11 points. It will be interesting to see how sentiment changes over time to separate them.

• Michigan firestorms into the top 10. It did not even appear on the list in 2013’s study, and now sits in sixth spot. In reviewing both sets of data, this rapid ascent seems to be a function of reaching additional voters, as well as work Michigan has done with its overall business degree portfolio.

• Keep an eye on Tennessee. It slipped down one spot to #9, but that can be attributed to Michigan’s meteoric rise. Looking purely at the votes cast, many voters are selecting Tennessee as their second or third choice. Given the work we have seen coming out of Tennessee, we expect that in the future we could see this university rapidly move up the rankings.

I really enjoy thinking about supply chain as a whole. I like delving into supply chain strategy, looking at the entire supply chain and seeing if it matches the corporate strategy that company is pursuing.

Charles (Chuck) Dokmo
MIT

I’m interested in the role of technology and how it will revolutionise supply chain practices. At Georgia Tech, we’re bringing leaders in business and technology together, and seeing how the intersection of the two is really disrupting and enabling certain industries.

Gillen Heisler
Georgia Tech

While some of the universities have a reputation for, or focus on, a particular aspect of supply chain (such as logistics or procurement), most of the students we spoke with opted for courses offering a more holistic, end-to-end view of supply chain.

For undergraduate courses, although the reputation of the university and its supply chain programme is a clear decision criterion, location is also a significant factor, with many US students selecting an in-state university, often for cost reasons. In several cases, students had family members who had previously studied in the same place, providing a degree of familiarity and personal recommendation.

Part of my decision to study at Cranfield was the company-based thesis. They have so many industry links. When you look at the people who’ve really made it at the executive and C-level, you’d be surprised at how many have studied at Cranfield.

Nicholas Graham
Cranfield
In almost all cases, the decision to return to university to take a master’s degree course is driven by the desire to gain a deeper and broader insight into supply chain. Equally, obtaining a master’s degree is seen as a necessary source of competitive advantage in an increasingly tough jobs market. Students returning to take a postgraduate course are more likely to select a programme based on its reputation, format (one or two years) and scope (ie, ratio of general business administration to supply chain content, or the option to do an internship rather than a thesis).

"I selected Stanford because of the reputation and quality of the programme. But most importantly, I was amazed by the quality of the people on the course."

Jonathan Cavallaro
Stanford

I felt like I had a really good background in supply chain. An MBA was a way to not only further that knowledge, but also to make sure I understood business as a whole, to tie my supply chain knowledge to the rest of the business so I can understand and explain the implications of everything in a way that someone from another functional team would understand.

Brett Fletcher
Georgia Tech

Perhaps not surprisingly, all the students spoke positively about their experiences at their place of study, so there is little of note to draw out here. Above all, the students were keen to highlight the quality of their professors and other faculty, and the level of support they offered both in terms of their expertise in the classroom, as well as in providing guidance and support in identifying internships and future job opportunities.

ASU can be overlooked because it’s not a top business school. From a supply chain point of view, I think it has some great professors. They prepare us really well for supply chain problems, and also for real-life problems.

Ken Hooton
Arizona State University

"Michigan State provides a really robust curriculum. They’ve developed some strong simulation software that enables us to run real-world situations over multiple weeks."

Leslie Garrison
Michigan State

Also valued is the support offered by the careers offices and other on-campus organisations such as alumni networks, fraternities (such as Alpha Kappa Psi) and other business societies and clubs, as well as other opportunities to participate in inter-collegiate case competitions and educational alliance networks such as MIT’s Global Supply Chain and Logistics Excellence (SCALE) Network.

Last, but by no means least, is the perceived value of the students’ peers and the additional layer of experiences they bring to the table.

"I selected Stanford because of the reputation and quality of the programme. But most importantly, I was amazed by the quality of the people on the course."

Jonathan Cavallaro
Stanford

HONOURABLE MENTIONS

While Cranfield and INSEAD made the list, a host of additional international programmes ranked just outside the Top 15. Those most frequently mentioned include:

- **Eindhoven University of Technology.** Located in the Netherlands, TU/e is a medium-sized university that prides itself on dedicated, personal mentorship for its students. Additionally, it offers a mission-driven atmosphere targeted to “meet the societal challenges especially in the fields of health, energy and mobility”. Such a mission is particularly relevant for millennials.
• **Chalmers University of Technology.** Located in Gothenburg, Sweden, Chalmers offers unique coursework focused on the future of technology. Its reputation for developing thought leadership on automation and robotics, in particular, is becoming ever more highly valued by supply chain organisations.

• **Vlerick Business Schools.** With three locations in Belgium and one in Russia, Vlerick has extended its reach to a larger European population. The *Financial Times* rates Vlerick as the #1 business school in Benelux and #18 overall for Europe. It received five #1 votes in our survey, indicating a growing support base in the supply chain community.

• **Warwick University.** Following Cranfield, Warwick is the second British university on the list. In addition to offering a range of manufacturing and supply chain degrees, Warwick has traditionally led all universities worldwide in the discipline of industrial relations.

International universities are typically voted as number one selections by individual voters, indicating that regional recruitment leads with local talent. As part of broader international diversity development, organisations should consider how to access talent from these programmes as part of global recruitment efforts.
TALENT FOR THE FUTURE

As clearly demonstrated in our research interviews, the next generation of supply chain professionals is a group of individuals from a diverse set of backgrounds, bringing a range of different experiences and skills to the table. Yet, without exception, they all shared the same thing: a desire to solve problems and the opportunity to make a difference, not only in the organisations they will work for, but also in the world.

They are team orientated and value the collaborative nature of working together to solve problems. They are driven and passionate about what they do. They are motivated more by values and culture than by money alone. And they value the experience and insights of their peers almost as highly as those of their supply chain professors and industry professionals.

These are the skills they bring. So, in turn, what skills does industry expect?

THE SUPPLY CHAIN SKILLS PROFILE

As part of our CSCO Study 2014, we asked 1,000-plus respondents to weigh in on which skills are essential, nice to have or not part of the supply chain toolbox. Figure 3 highlights some fairly lofty expectations on the essentials.

Supply chain’s heritage is in the functional expertise of planning, sourcing, manufacturing and distribution. Over half of respondents say that each of these functional skills is essential. Customer management, new product development and launch, sales and post-sales support have extended the functional skills portfolio into internal adjacencies.

At the same time, cross-functional skills like performance management, change management and governance have emerged as essential for the supply chain professional. These skills are typically gained through a mix of training and on-the-job experience. The tools can be taught as part of a curriculum, but proficiency will come with practice.

What becomes clear in this data is that industry expects supply chain professionals to have a mix of functional domain knowledge and the capabilities to drive change across functions through strategic initiatives. Many HR programmes describe this mix of skills as the T-shaped leader (Figure 4).

During the research process, we were amazed at how much the current generation’s expectations of the skills needed aligns with what industry requires of them. When students were asked what skills were most needed for their studies and a subsequent career in supply chain, the ability to think analytically and solve problems was by far the top answer.
Developing the “T-shaped” supply chain leader

Functional topics

- Typically introduced as part of standard coursework
- Students can often specialise in an area for more depth

Cross-functional topics

- Are introduced to varying degrees as regular coursework
- Not typically offered as specific degree programmes (sustainability can be an exception)
- Students get real-world exposure to these topics in internships and in their first few years after entering the workforce

Source: SCM World

If you’re intellectually curious about how to solve problems, supply chain is a great major to have. There are so many different variables to solve, and to bring that all together and understand it, that’s really what the core concept of supply chain is.

Brandon Swinko
Penn State University

To be effective and successful, the biggest skillset you can bring to the table is people skills. A huge part of supply chain is relationship building: with people you’re working with, with customers and suppliers, and people over the end-to-end network. Get involved and develop these skills while you’re studying. You’ll be more successful and have a lot more opportunities.

Andrew Currey
University of Tennessee
THE NEXT GENERATION IS A DISCERNING ONE

For the majority of graduates just starting out in their supply chain careers, the strategy is to keep their options open by getting a wide range of experience before deciding exactly where to focus or what to aim for. Young graduates are lining up jobs in consulting or with large organisations that can offer them a rotation through various supply chain functions. The opportunity to travel also rates highly, with many wanting to make the most of the fact that – for now, at least – they have few or no ties to challenge their mobility.

With some work experience under their belts already, master’s degree students typically have a more definite idea of the path forward and of where they see themselves in the future, be it specialising in a particular area of supply chain strategy, leading the supply chain function, or, in one case, leading an entire organisation.

“I’ve decided to focus on operations and logistics because I like to see the product in action and work with something tangible. With logistics, you’ve really got to work with your customers to figure out what their supply needs are for their different operations. That’s the way of the future.”

Andrew Johnson
Michigan State

“In almost all cases, our students have already lined up full-time positions for after graduation with companies including Amazon, Cintas, Dell, Deloitte Consulting, DHL, E&Y, General Mills, Intel, Microsoft, PepsiCo and WhiteWave Foods. This is, in large part, thanks to their internship experiences, but also as a result of on-campus career fairs and other networking opportunities organised by the universities.

What is clear is that today’s top graduates are a discerning kind. They know they are in demand, and the interview process is as much about interviewing their prospective employer as it is an assessment of their own ability and fit. In addition to the growth and development opportunities that companies can offer them personally, today’s graduate wants to work for a company with a good cultural fit and shared values.

“I’d like to be a GM or VP of supply chain or procurement for a large organisation in the next 10 years or less. To do that, I need to build certain sets of skills and experiences to set me up for success. That’s why I went back to school.”

Ankur Agarwal
University of Michigan

“I’m interested in finding an international organisation that will provide me with the chance to travel and help me grow both personally and professionally. I’ve applied to many different industries that appeal to me, but I’m more interested in company culture, their supply chain strategy and also how much they invest and focus on their graduates and those taking entry-level positions.”

Camilla Pierleoni
Cranfield

“My career goal is to be a supply chain analyst. My interest is on the demand-side forecasting.”

Serena Wang
Ohio State

The Top 15 Supply Chain Universities A Recruiter’s Guide To Future Talent
Supply chain as commercial discipline

One of the leading educators we spoke to for our research was Yossi Sheffi, Elisha Gray II Professor of Engineering Systems at the Massachusetts Institute of Technology, whose view on how the discipline is changing points to a bright future for young people embarking on careers in supply chain. At the highest level, the trends point to developing a layer of commercially critical skills like leadership and communication on top of a technical foundation. The typical hot topics for students today include the practicalities of presenting to a board of directors or venture capitalist, as well as honing an “elevator pitch” on the essential commercial questions boiled out of complicated operational issues.

In part, this trend reflects a wider appreciation of how supply chain impacts business competitiveness and the fact that people expect to see future leaders emerging from this role. The Wall Street Journal, for instance, has recently launched dedicated coverage in the supply chain area to support wider general management interest in the topic.

MIT sees a mix of applicants to its supply chain masters’ programme, including about a third who have already earned MBAs. Among the candidate pool, which typically comprises 400 applicants for 30 spots, many are supply chain professionals looking to accelerate their careers, while many others are seeking a career change – often from IT roles. What most seek is not so much additional depth in supply chain as an appreciation of what companies are looking for in terms of business impact.

Two promising trends in MIT’s student pool suggest a bright future for the profession. One is a marked increase in interest surrounding progressive topics such as social justice and environmental sustainability. Most, it seems, are aware of the huge potential impact of supply chains on the world around us.

The second trend is towards higher pay for supply chain jobs. Salaries for MIT graduates are often around double what they were earning before going back to school. As a proof point, Dr Sheffi notes that MIT raised its tuition fees by nearly 50% a few years back, with no subsequent drop in application numbers.

Business is clearly betting on supply chain learning for its future.
A COMPELLING CAREER

It would appear that there is no cookie-cutter background for the typical supply chain student. The 20 students we spoke to have experience in areas as diverse as architecture, biochemistry, teaching, human geography, market research, civil and industrial engineering, politics and the US Air Force. Postgraduate students had three to four years of work experience on average, having already spent time in supply chain roles at companies such as Capgemini, Disney, Frito-Lay, Nike, Tesco, Toyota and Procter & Gamble.

I was teaching in China and saw small businesses making things and the conditions they worked in. I wanted to learn supply chain to learn how to improve things.

Caitlin Anderson
Ohio State

For this group, a career in supply chain offers not only the opportunity to solve problems and make an impact, but also to keep learning, to travel and – through supply chain’s cross-functional reach and impact – to become tomorrow’s business leaders.

Supply chain is a skill that can’t be replaced by computers. It’s a skill that’s quantitative, but you also have to solve challenging problems. And it’s never the same thing. You’ll never get bored, doing the same thing over and over again.

Andrew Rogier
Stanford

I think companies are only just beginning to realise the benefits of understanding their supply chains and the opportunities for process improvement and cost reduction. Supply chain is going to grow exponentially – it’s a great moment to be a supply chain professional.

Carolina Torres
University of Michigan

For me, supply chain is like the network of veins running through an organisation, and there’s no other place I’d rather be than at the centre of a fast-paced, always growing and constantly evolving field. Supply chain should become a core competency in the business world.

Karoline Rueckerl
Penn State University

Their inspirations come from a variety of sources, including professors and other faculty members, company mentors and family role models. When asked about their thoughts on best-in-class supply chains, Amazon led the field (“its supply chain is a work of art”), followed by the likes of Apple, Lululemon, Nike, Patagonia, Starbucks and Zara (“their ability to manage stock, manage risk and be very quick and nimble”), as well as companies such as Wal-Mart, General Mills, Argos and John Lewis. Culture, values and integrity also play an important role.
The common takeaway from every student we spoke to is that they view supply chain as a compelling long-term career where they can have a clear impact.

IS YOUR RECRUITMENT PITCH INSPIRATIONAL?

In the opening word cloud of student feedback (Figure 1), “motivations”, “the future” and “interests” dominate. It would be flippant to say that the current generation does not care about money, but they also have other priorities.

According to a 2015 Deloitte study of over 7,000 millennials, there is a big gap between what they want out of a career and what they perceive management has set as priorities. As Figure 5 demonstrates, the graduating generation is much more focused on growth, positive impact and a long-term future than short-term financial gains.

With this evolving perspective on what makes a career at your company compelling, it is important to update both recruiting processes and work assignments.

Unilever is one of the best examples of a mission-driven company. Its corporate mission is to “double revenue while halving [its] environmental footprint by 2020”. This simply worded mission captures positive social impact, a growth objective, longevity and financial objectives all at once.

Because Unilever has extended this mission through every layer of its supply chain organisation as part of its Sustainable Living Plan, there are opportunities to engage in the mission in every functional organisation. Recruiting, internships and entry-level assignments all benefit from the attention Unilever has paid to an inspirational message.

The person who really inspires me is Mary Barra, CEO of GM. She started out as an engineer, like me, and worked her way up. There are very few women CEOs out there. In the future, I plan to be one of them.

Samara Sadrin
University of Tennessee

One of the things that drove me to supply chain management was the fact I really wanted to work with companies that were environmentally and socially responsible; with people who look beyond their bottom line and work towards making the world a better place. What’s great about MIT is that they have a sustainability certificate that you can pursue, so you can tailor your studies towards being green.

Stephanie Buscher
MIT

The CEOs of Starbucks and PepsiCo are phenomenal people. They have a firm commitment to upholding their values and their ethics. They’ve made it clear to me that you can make it in business and still be true to your values and the things that are important to you.

Andrew Currey
University of Tennessee
A MUTUAL TEST DRIVE

If you are not offering internships and co-ops by now, you are definitely behind. Both universities and their students expect these “try-and-see” options as a given at top supply chain organisations. And internship projects cannot be a second or third priority for hiring managers.

Students are arriving at companies expecting real work with real impact. For the students we spoke with, internships played a major role in their overall study experience, allowing them to accrue real-world experience that enhanced their theoretical studies as well as, in many cases, leading to permanent job offers following graduation.

Given the need to develop depth and breadth of expertise in supply chain, there is an opportunity to use the T-shape construct to design internships to offer both functional and cross-functional exposure.

As Figure 6 demonstrates, selecting a cross-functional topic but limiting the scope to one function is a good introduction to the extent of supply chain knowledge needed. Establishing formal connections to other functions through scheduled one-on-ones with leaders from those respective groups provides additional exposure to the end-to-end functional skills required.

Students undertake as many as four different internships during their studies, with our set of students gaining experiences in a wide range of industries with companies including BASF, BMW, Caterpillar, Chevron, Cummins, Dawn Foods, Dell, Deloitte Consulting, Delta Air Lines, Dick’s Sporting Goods, Emerson Electric, Exel (DHL), Exxon Mobil, Intel, J.C. Penney, John Lewis, KPMG, Lab126, Nestlé, PepsiCo and Under Armour. Projects were equally diverse, including everything from warehouse and inventory optimisation to operational sustainability initiatives.
We’ve done a lot of projects with local companies, working on real-life projects. It’s not just a class project, it’s also something where you might actually impact a company, similar to an internship experience, but with guidance from top-notch professors to help you.

Betty Lee  
Arizona State University

The biggest benefit of doing an internship, or any form of external experience, is to bring a perspective to your coursework. When people talk about strategic partnerships, or transportation lanes, or how to optimise a supply chain, you have this real-world perspective of how you could use that. It really aids in your learning of different types of concepts and realities.

Brandon Swinko  
Penn State University

Source: SCM World
CONCLUSION: ATTRACTING THE NEXT GENERATION OF LEADERS

Our 2014 Supply Chain Universities: A Marker of Talent report established the landscape of top university programmes that feed the entry- and graduate-level talent pipeline. This year, we focused on what you can expect to draw out of this landscape with a pointed focus on the students.

The results have been compelling. Plenty of data is available on millennials and their unique perspectives, but, through this research, we have seen first hand that the next generation has raised the bar on supply chain expertise. Simultaneously, they are expecting more of you as corporate recruiters.

Three recommendations on attracting the next generation of leaders come directly from that group:

1. **HR and supply chain leadership need to partner together on recruitment, internships and first assignments.** We have heard repeatedly from our executive community that if we want to inspire careers in supply chain, we have to make the profession “sexy”. The mechanism to do this is the portfolio of cool stories about how supply chain helps to solve the world’s fundamental challenges of health, hunger and environmental sustainability. These stories sit in the minds of supply chain leadership.

   It is essential that this knowledge is shared with HR, as the face of talent acquisition. The ability to show connections from these inspirational results to each candidate’s work – whether in an internship or as a first job assignment – is a task for both hiring managers and HR. It must start in the recruitment process and be regularly reinforced to both hire and retain top talent.

2. **Share your mission and acknowledge your reputation.** This one is perhaps easier than it may seem. As mentioned previously, Unilever is in a great position here, as its corporate mission includes the elements that are most important to the current generation. Nevertheless, Unilever is the exception, rather than the rule. For most companies, gathering recent examples of work on social and environmental responsibility is a good path to connect a corporate mission to a broader social one.

   When it comes to reputation, our student interviewees were extremely well-versed in companies’ positive and negative reputation profiles related to recent global events. It is best to be upfront with any current reputational impacts, as it does seem that students today actually do their research before meeting with you.

3. **Show a path to impact.** SCM World has hosted several discussion forums on millennials in the workforce and commonly hears supply chain leaders’ irritation with the speed at which this generation expects to be promoted. However, as these same forums and Deloitte’s millennial study data both confirm, the true underlying desire is to make an impact, not purely to gain seniority.

   Many supply chain organisations now include the millennial population as members of key strategic initiatives, or establish specific projects aligned to their interests to show the path to impact. Cataloguing your work on similar efforts will aid your recruitment efforts.
## APPENDIX: TOP 10 UNIVERSITIES

<table>
<thead>
<tr>
<th>School</th>
<th>Programmes provided</th>
<th>Number of graduate students</th>
<th>Size of faculty</th>
<th>Details</th>
<th>Sources</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Michigan State University</strong></td>
<td>Undergraduate: Supply Chain Management (SCM) Major</td>
<td>Total 954</td>
<td>Broad college</td>
<td>Programmes are conducted by Broad College of Business, Department of Supply Chain Management. Supply Chain Management/Logistics undergraduate programme at MSU has been placed at No. 1 in the America’s Best College rankings by U.S. News &amp; World Report for four consecutive years; Supply Chain/Logistics graduate programme No. 2 for the graduate schools rankings. The MSc in SCM programme requires at least two years of supply chain work experience. The Financial Times ranked MSU’s EMBA programme 5th in the US and 30th worldwide in terms of “career progress” in 2014.</td>
<td>UG SCM Major</td>
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<tr>
<td></td>
<td>Graduate: MSc in Supply Chain Management</td>
<td></td>
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<td></td>
<td>PhD in Logistics and Operations &amp; Sourcing Management</td>
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<tr>
<td></td>
<td>MBA Concentrations, Supply Chain Management track</td>
<td></td>
<td>Full-time</td>
<td></td>
<td>EMBA SCM curriculum</td>
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<tr>
<td></td>
<td>EMBA (curriculum focuses on Supply Chain Management)</td>
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<td>lecture track</td>
<td></td>
<td>Grad Student &amp; Faculty Count</td>
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<tr>
<td></td>
<td>Doctoral: PhD in Logistics</td>
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<td>Full-time</td>
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<td>SCM Faculty</td>
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<tr>
<td></td>
<td>PhD in Operations &amp; Sourcing Management</td>
<td></td>
<td>tenure</td>
<td></td>
<td>UG/G Program Rankings</td>
</tr>
<tr>
<td><strong>Pennsylvania State University</strong></td>
<td>Undergraduate: Majors in Supply Chain and Information Systems, and Management Information Systems</td>
<td>80 MBA students in class of 2014</td>
<td>Faculty in SCM</td>
<td>Programmes are conducted by Penn State Smeal College of Business. Penn State Smeal College of Business is ranked 5th in Supply Chain Management/Logistics by U.S. News &amp; World Report 2015. The Master of Professional Studies in Supply Chain Management Program is a two-year online degree. The Graduate Certificate in Supply Chain Management is a one-year online professional development programme.</td>
<td>UG SCM MBA Concentration</td>
</tr>
<tr>
<td></td>
<td>Graduate: MBA, Concentration in SCM</td>
<td></td>
<td>Supply Chain</td>
<td></td>
<td>MPS SCM GC SCM</td>
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<td></td>
<td>PhD, Emphasis in Supply Chain and Information Systems</td>
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<td>Information</td>
<td></td>
<td>Graduate Student Count</td>
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<td></td>
<td>Professional: Master of Professional Studies in SCM</td>
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<td>Systems</td>
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<td>Faculty Count</td>
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<td></td>
<td>Graduate Certificate in SCM</td>
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<td>Department</td>
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<td>Rankings</td>
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<tr>
<td><strong>Massachusetts Institute of Technology</strong></td>
<td>Graduate: SCM Master’s Degree Program (10 months, Master’s of Engineering in Logistics, conducted by the MIT Center for Transportation &amp; Logistics)</td>
<td>40 students in MSc in SCM 2015</td>
<td>Faculty for MSc in SCM Program</td>
<td>MIT holds MSc in SCM collaborations in Zaragoza (ZLOG), Malaysia (MSCM) and Madrid. MIT Sloan School of Management conducts two SCM-related masters level programmes – Leaders for Global Operations and System Design &amp; Management, both designed for people with engineering backgrounds.</td>
<td>MIT Master’s Program EMBA Graduate Student Count Faculty MSc SCFFaculty CTL Professional Program Collaboration with Zaragoza Leaders for Global Operations and System Design and Management</td>
</tr>
<tr>
<td></td>
<td>PhD in Logistics and Supply Chain Management (local)</td>
<td></td>
<td>Four professors</td>
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<td>EMBA SCM</td>
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<tr>
<td></td>
<td>PhD in Logistics and Supply Chain Management (University of Zaragoza)</td>
<td></td>
<td>Eight</td>
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<td>Faculty MSc SCM</td>
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<td></td>
<td>Professional: EMBA with Operations Management (20 months)</td>
<td></td>
<td>research</td>
<td></td>
<td>Faculty CTL MS Collaboration with Zaragoza Leaders for Global Operations and System Design and Management</td>
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<tr>
<td>School</td>
<td>Programmes provided</td>
<td>Number of graduate students</td>
<td>Size of faculty</td>
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<tr>
<td>Arizona State University</td>
<td>Undergraduate (BSc in SCM) Graduate (MBA (full time) Supply Chain Management Specialisations (SC Financial Management Specialisation, SCM and Health Sector Management Specialisation, SCM Area of Emphasis) MSc in SCM and Engineering MSc in Business Analytics (MS-BA) PhD Business Administration (Supply Chain Management) Professional Graduate Certificate in SCM (Executive) MBA</td>
<td>67 MBA students in class of 2015 Faculty in the Department of Supply Chain Management 28 professors Nine associate professors Two lecturers</td>
<td>Programs are conducted by WP Carey School of Business. WP Carey School of Business is ranked third for both undergraduate and graduate departments in Supply Chain Management/Logistics by U.S. News &amp; World Report 2015. MBA can be provided online; MS-BA, Graduate Supply Chain Management Certificate, and MSc Supply Chain Management and Engineering are only provided online. EMBA programme ranked 13th in the world by The Wall Street Journal.</td>
<td>UG SCM MSc SCM &amp;E Ph.D SCM GC in SCM EMBA Graduate Student Count Faculty Count WP Carey Ranking EMBA Ranking</td>
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<tr>
<td>Georgia Institute of Technology</td>
<td>Undergraduate (BSc in Industrial Engineering (BSIE) Graduate MSc in Supply Chain Engineering MSc in Industrial Engineering PhD, Major in Industrial Engineering, Supply Chain Engineering Track Professional Executive Master’s in International Logistics &amp; Supply Chain Strategy</td>
<td>130 PhD students in Class of 2015 22 students in EMIL-SCS Faculty in H. Milton Stewart School of Industrial &amp; Systems Engineering at the Georgia Institute of Technology 54 Supply Chain Engineering Faculty Eight professors Two assistant professors</td>
<td>Scheller College of Business offers a Supply Chain/Operations Management programme and is ranked 30th by U.S. News &amp; World Report. These courses are under Georgia Tech’s Stewart School of Industrial and Systems Engineering. Mike Duke, CEO of Wal-Mart, was a student.</td>
<td>BSEIE MSc SCE Ph.D IE EMBA Graduate Student Count Faculty Count Rankings Mike Duke</td>
<td></td>
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<tr>
<td>University of Michigan</td>
<td>Undergraduate (BSc in Industrial and Operations Engineering Graduate MSc in SCM MBA in Industrial &amp; Systems Engineering PhD in Information Systems Engineering Professional EMBA with courses on SCM (two years)</td>
<td>197 MBA; 23 MSc students enrolled in class of 2014 Industrial and Manufacturing Systems Engineering Department Nine professors Three associate professors Five assistant professors Four lecturers</td>
<td>Graduate Programs held by Michigan-Dearborn, EMBA held by Michigan-Ross.</td>
<td>UG IE MSc SCM MBA Ph.D EMBA Graduate Student Count Faculty Count</td>
<td></td>
</tr>
<tr>
<td>School</td>
<td>Programmes provided</td>
<td>Number of graduate students</td>
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<tr>
<td>Stanford University</td>
<td>Graduate (School of Business)</td>
<td>410 MBA expected students for class of 2016</td>
<td>Operations, Information and Technology (OIT) Faculty 15 professors Four assistant professors Two lecturers</td>
<td>Stanford’s two-year, full-time general management MBA programme is designed to help “the brightest, most passionate people in the world” develop “analytical and creative thinking and build leadership skills in an innovative environment”. The MSx programme is for mid-career professionals (those with at least eight years of work experience) who want to develop their strengths in general management, leadership and innovation. The doctoral programme is for people pursuing a career in academic research and education focused on management.</td>
<td>MBA Curriculum MSx Graduate Student Count Faculty Count</td>
</tr>
<tr>
<td>Cranfield University</td>
<td>MBA (full time, one year)</td>
<td>110 students in MSc in Logistics and Supply Chain Management</td>
<td>Faculty in Logistics &amp; Supply Chain Management group 19 (additional 20 visiting) Two professors (additional nine visiting) 11 lecturers</td>
<td>The full-time Masters in Logistics and Supply Chain Management established over 28 years ago. In the UK, lecturers and readers are equivalent to assistant professors and associate professors in the US.</td>
<td>MSc SCM Ph.D EMSc Faculty Count</td>
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<tr>
<td>University of Tennessee</td>
<td>BSc in Business Administration, Supply Chain Management BSc in Industrial Engineering MBA, Concentration in SCM MSc Industrial Engineering PhD in Business Administration, SCM Graduate Certificate, Industrial Engineering</td>
<td>35-50 MBA students per year</td>
<td>Faculty in Global Supply Chain Executive MBA programme 17 Four professors Two associate professors Two lecturers</td>
<td>Much of this programme’s design is rooted in feedback from senior supply chain executives of 42 companies who sit on the Advisory Board of UT’s Global Supply Chain Institute.</td>
<td>MBA Concentrations Graduate Student Count Feedback</td>
</tr>
</tbody>
</table>
## Ohio State University

### Undergraduate
- Majors in Operations Management, Logistics Management, Industrial & Systems Engineering

### Graduate
- Master in Business Logistics Engineering (MBLE)
- Master of Business Operational Excellence (MBOE)
- MSc Industrial and Systems Engineering
- PhD Industrial and Systems Engineering
- Professional (Executive) Master of Business Operational Excellence

### Programmes provided

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<tr>
<th>School</th>
<th>Programmes provided</th>
<th>Number of graduate students</th>
<th>Size of faculty</th>
<th>Details</th>
<th>Sources</th>
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<tbody>
<tr>
<td>Ohio State University</td>
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<td>MBOE and MBLE programmes are conducted by Fisher College of Business, which also conducts MBOE (Executive). Doctoral students can select from a number of areas of emphasis, including operations management and logistics.</td>
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### Integrated Systems Engineering Dept
- 12 professors (I&S Engineering)
- 10 associate professors
- MBOE
  - 10 professors
  - MBOE
  - Four professors
  - Two associate professors
- 15 distinguished lecturers and 15 project coaches who are working in companies

### Academic Details

- **UG Majors**
- **Graduate Programs**
- **EMBA Core Course**
- **MBOE Graduate Count and Faculty**
- **MBLE Graduate Count and Faculty**
- **ISE Faculty**

### Acronyms used:

- **BEng:** Bachelor of Engineering
- **BSc:** Bachelor of Science
- **EMBA:** Executive Master of Business Administration
- **MBA:** Master of Business Administration
- **MSc:** Master of Science
- **PhD:** Doctor of Philosophy
- **SCM:** Supply Chain Management

**Details correct as of June 2015**
ABOUT SCM WORLD

SCM World is the supply chain talent development partner for the world’s leading companies, empowering professionals with the capability, commitment and confidence to drive greater positive impact on business performance and help solve three of the world’s fundamental challenges: health, hunger and environmental sustainability.

The SCM World community accelerates collective learning and performance by harnessing the knowledge of the most forward-thinking supply chain practitioners, shared through industry-leading research, best-practice exchanges, peer networking and events. Over 150 companies participate in and contribute to the SCM World community, including P&G, Unilever, Nestlé, Samsung, Lenovo, Cisco, Merck, Caterpillar, Nike, Walgreens, Jaguar Land Rover, Raytheon, Chevron, Shell and BASF.

For more information about our research programme, contact:

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