



# SCOPE:

## Senior Capstone Program in Engineering

**Sponsor a SCOPE team:**  
Exceptional value for our partners;  
invaluable experiences for our students



### About SCOPE

SCOPE is a unique industry-college collaboration, and the culminating experience of an Olin student's education. Over the course of a full academic year, seniors work in multi-disciplinary teams to provide innovative solutions to a company's real-world problem. Olin has conducted SCOPE projects for organizations around the country, including Fortune 500 corporations, government research laboratories, product development companies and small businesses and startups. If you have a challenge which, if addressed, could significantly benefit your company—and you would like to have a team of innovative, entrepreneurial engineers focus on it for an academic year—your company may be a good fit for SCOPE.



### Why SCOPE?

In the SCOPE program, seniors are grouped in teams with appropriate skill sets to match the needs of each sponsor company's project. Partners benefit from:

- Innovative and unexpected solutions to real-world, real-time problems from a talented team of creative young engineers
- Student teams' access to technical expertise of faculty and industry advisors
- Strong program structure to support the teams' work, including project management training, reporting and feedback loops, access to Olin's state-of-the-art facilities and a dedicated, professionally equipped work space
- An appropriate non-disclosure agreement to protect sensitive interests
- Sponsor retention of all intellectual property developed by team
- Preferred recruitment opportunities

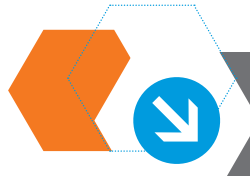


## Be in Good Company: 2017-18 SCOPE Partners

- Amazon Robotics\*: **Robotic Pick and Place**
- Boeing\*: **Improving the Wire Harness Manufacturing Process**
- Boston Scientific\*: **Improved ERCP Cannulation**
- CUAHSI: **Hydroshare User Experience Redesign**
- Dassault Systemes SolidWorks\*: **SOLIDWORKS Apps for Kids: Slice It!**
- Fidelity Labs, Inc\*: **Denarius**
- GE Healthcare: **Increasing Mobile X-Ray Efficacy through Technology-Assisted Alignment**
- Mitsubishi Electric\*: **Share Meals, Make Friends: Creating Communities in the Golden Years**
- Raytheon\*: **Additive Manufacturing of Magnetic Materials to Improve RF Circuitry**
- Rockwell Automation\*: **Improving Human-Robot Collaboration Through Wearable Technology and Emotional Intelligence**
- Sonos: **PLAYTEST: Characterizing Speaker Walking**
- Tata Motors/Autodesk\*: **Collaborative Design of Autonomous Vehicles for Aging Adults**
- TE Connectivity: **Innovative Actuator Development for Aerospace Applications**
- Volpe/Santos Family Foundation\*: **VIEW: Visibility in Elevated Wide Vehicles**

\*Multiple-Year Sponsor





## ➔ Natalie MacMillan

Sr. Product Manager, Marketing  
Insulet

"Our student team exuded hard work and passion which was evident in the output of the Toby app project this year. The team never ceased to impress me throughout the year; Professional, articulate, poised, passionate, and thoughtful. I truly felt like they were an extension of the team and thoroughly enjoyed working on this project with them. I'm looking forward to commercializing most, if not all, of what they did!"

## ➔ Kurt Geitz

Vice President, R & D  
Boston Scientific

"The SCOPE teams often come up with novel ideas to enable opportunities for our new products. They've actually shaped us in more ways than just a single product idea. We've picked up some of the structure that Olin teaches in the way we analyze opportunity and winnow down to the concept selection. On the test method side, we've learned some surprising things about how devices interact with the biology that we had not thought of before. They always come back with insights that surprise us. We've hired students and graduates, and they infect the teams that they work on. They bring not just the tools, but an unusual way of thinking about things. They challenge their peers, and they bring up the level of performance of everyone on the team."

## ➔ Tim Stallman

Software Development Manager  
Amazon Robotics

"Amazon is a Think Big and think long term company. We recognize Olin as a top engineering educational institution with excellent engineering talent and value set that aligns with Amazon's core leadership principals. The partnership has already exceeded our expectations and we anticipate many more years of collaborations."

## Previous SCOPE Sponsors Include:

Aerodyne ● Adsys Controls ● AGCO\*  
● Amazon Robotics\* ● Analogic\* ●  
Ariens\* ● Army Research Laboratory\*  
● athenahealth ● Auris ● Aurora  
Flight Sciences ● Autodesk\* ● Blue  
Origin ● Boeing\* ● Bose ● Boston  
Engineering\* ● Boston Scientific\* ●  
Brandeis University\* ● Care.com ● Dawn  
Solar Systems ● Dassault Systemes  
SolidWorks\* ● DEKA ● DePuy Mitek/  
Synthes\* ● Draper Laboratory\* ● DRS  
Technologies ● Facebook\* ● Fidelity  
Labs, Inc.\* ● FloDesign Wind Turbines  
● Harley-Davidson\* ● Hewlett-Packard  
● Hutchinson/Barry Controls ● IBM\* ●  
indico ● Insulet ● Intuit ● Ivani\* ● John  
Deere ● Lexmark\* ● Linden Lab ● Locus  
Robotics ● The MathWorks ● Microsoft ●  
MIT/DARPA ● MIT Lincoln Labs\* ● MITRE\*  
● Mitsubishi Electric\* ● Motorola ● Nortel  
Networks\* ● Onshape ● Orica Mining  
Services ● OsComp Systems ● Parietal  
Systems\* ● Pearson Education ● PepsiCo  
● Pratt & Whitney\* ● Premium Power  
● Raytheon\* ● Rockwell Automation\*  
● ROCONA\* ● SAIC ● Schlumberger\*  
● Scientific Systems ● SpaceX ● Team Grill  
● TripAdvisor ● Vision Robotics\* ●  
● What Matters Most



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