

# SPP STRATEGIC PARTNERSHIP PROGRAM



## Message from School Chair

In looking at the world, we can see that we have become a data-rich economy, which is growing in its expanse and complexity everyday. Even as the world shrinks through the continental advance of new technologies, the problems facing industry and government become commensurately more compounded.

We're experiencing computation at scales never before seen and every sector, whether it be health, national security, environment, manufacturing, etc., is looking at new technologies and data science and what they can mean for their company's output. It is critical to figure out how to integrate new data, systems, and technology into your business so you can remain at, or rise to, the top of your field.

Responding to global markets, industry is forced to negotiate a web of political and cultural boundaries even as major economic, environmental, and social challenges increasingly stretch across international borders.

Whether it's a global supply chain, an emerging international market, or any number of massive data sets generated from dozens of databases in an equal number of nations, the power to apply the latest computation-based innovation is vital to compete. Almost every day, the internet and applications produce larger sets of data than they did the day before. Real market advantages lie hidden in that data, waiting for whomever has the power to find and interpret it.

Enter Georgia Tech's School of Computational Science and Engineering (CSE). Founded in 2005, CSE solves real-world problems in science, engineering, health informatics, homeland and national security, high performance computing, big data, machine learning, and large-scale analytics. Our world-class faculty and graduate students synthesize principles from computing, mathematics, science, and engineering to develop innovative solutions across disciplines to answer some of the world's most-pressing problems.

CSE researchers and partners all benefit from our ecosystem of innovation that integrates the existing assets of Georgia Tech's Technology Square with new



opportunities in interdisciplinary research, commercialization, and sustainability. This ecosystem will expand Aug. 2, 2019 when CSE moves to the state-of-the-art Coda building. CSE will be the only school moving in its entirety to the new building which will serve as a collaborative hub with industry partners, major companies, and startups. In Coda, CSE students and faculty will work in a collaborative environment which will offer a centralized atmosphere unparalleled in the south east.

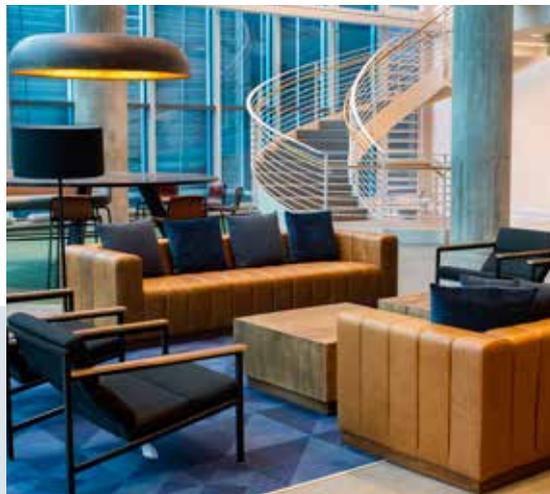
By working with CSE, we can target your specific research needs, offer a competitive advantage, and affect your bottom line. From measuring, predicting, and shaping the behavior of your target audience, to discovering hidden relationships, connections and results with visualizations to creating novel computing solutions for your particular needs – CSE's abilities within the computer science and computational realms are not only at the forefront of each research realm, but also growing everyday. In addition, you'll gain direct access to our diverse pool of graduate students and have the opportunity to shape the next generation of computational and data scientists by giving feedback to the CSE academic program curriculum.

The reciprocal nature of this program is brought to life through the diversity of your needs and our researchers having the opportunity for hands-on experience that is unlike any other university partnership.

In doing so, CSE delivers the tangible benefit of a highly trained computational workforce and rapidly advancing research programs that keep pace with reality. As you continue reading, I hope you'll decide to become part of our global community.



**David Bader**  
Professor and Chair  
School of Computational Science and Engineering



# A Strategic Advantage for the Modern World

## CSE Strategic Partnership Program

The Strategic Partnership Program (SPP) creates a vibrant, mutually-beneficial link between CSE and industry. By joining SPP, your company will have direct access to some of the world's top emerging computational scientists and engineers. From this position you will be able to forge the kind of private-public partnerships that have proven essential in tackling complex real-world problems through scientific research.

As a CSE SPP member, you will be able to recruit graduate students from a Top 10 computing program to your workforce and even help shape the high-skill workers of tomorrow through CSE curriculum advice. You will be in the perfect position to provide the feedback we need to keep our program application-focused, even as we ground our students in bedrock scientific knowledge and practice.

## Benefits of Partnership

- Forge research relationships with CSE faculty at an annual members-only SPP meeting
- Keep up with the latest CSE research through our news and announcements of seminars & events
- Connect directly to your workforce recruitment pool through email access to CSE students
- Review the most promising recruitment prospects with a CSE Graduate Student Resume Book
- Get to know our faculty and graduate students face-to-face in school-hosted lunches and informal meetings
- Shape your future computational & data scientist workforce with invited feedback to the CSE graduate program curriculum
- Extend your brand to the wider CSE community through placement of your corporate logo on CSE website and Strategic Partners wall

In addition to the tangible benefit of a highly-trained computational workforce for the 21st century, what other perks do CSE SPP partners enjoy? How about a competitive advantage? Companies that are able to stay atop the Big Data tsunami find that it can carry them a long, long way in the marketplace. CSE research has led to breakthroughs in computational power and analytics that result in real, measurable impacts across application domains.

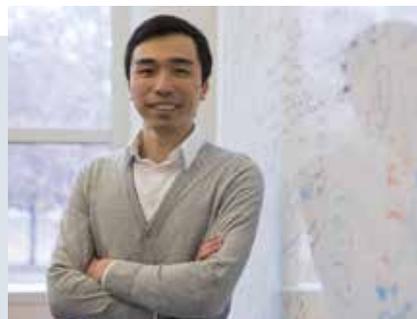
Partners benefitting from research collaborations with the School of CSE represent a variety of sectors including:

- Health care & biomedical
- Materials & manufacturing
- National security—including cybersecurity
- Urban systems & planning
- Sustainability & alternative fuels
- Internet & social media
- High performance computing
- Massive data analytics

Whether your company operates in these domains or others, the School of CSE is eager to work side-by-side with you to make the power of Big Data serve your bottom line.

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**Pacific Northwest**  
NATIONAL LABORATORY

## Computational Science & Engineering Faculty



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Fellow: AAAS, IEEE  
NSF CAREER Award



**David Bader**  
Professor & Chair  
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\*Effective Fall 2019'

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