## Graduate Programs at SICE

#### Esfan Haghverdi Executive Associate Dean for Academic Affairs

School of Informatics, Computing, and Engineering Indiana University Bloomington

April 10, 2019

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Graduate Programs at SICE

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## Bloomington, Indiana

- Southwest of Indianapolis, 7th largest city in the state, established in 1818 "a haven of bloom"
- Population: 85,071 (2017)
- Academy Award-winning 1979 movie *Breaking Away*, featuring a reenactment of Indiana University's annual Little 500 bicycle race
- Lakes and national parks
- Highly multicultural
- Art and music festivals
- International cuisine

- 2017 Best Cities for Entrepreneurs: #24 out of 50
- Vibrant and growing ecosystem of local start-ups
- #31 in the "Top 100 Best Places to Live" in 2018 by Livability.com
- Over 13 major festivals each year
- 12% below the national average for the cost of living
- Tech sector employment has grown by over 80%
- #2 in the nation among 124 small metros for high tech GDP concentration



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# Indiana University

- Established in 1820
- IU Population 43,710 (2017)
- 9 Nobel laureates, 17 Rhodes Scholars, 17 Marshall Scholars, and 5 MacArthur Fellows.
- 6 Academy Awards, 49 Grammy Awards, 32 Emmy Awards, 20 Pulitzer Prizes, 4 Tony Awards, and 104 Olympic medals (55 gold, 17 silver, and 32 bronze).

## Notable Alumni

- James Watson, one of the co-discoverers of the structure of DNA
- Jimmy Wales, the co-founder of Wikipedia
- Robert Gates, the 22nd United States Secretary of Defense
- Dag Kittlaus, CEO and co-founder of Siri and Viv
- Suzanne Collins, award-winning author of The Hunger Games series
- Hoagy Carmichael, composer and songwriter
- John Chambers, executive chairman and former CEO of Cisco Systems
- Mark Cuban, billionaire investor



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## SICE History

- 2000, School of Informatics
- 2005, School of Informatics (CS joined the school)
- 2009, School of Informatics and Computing
- 2013, School of Informatics and Computing (SLIS joined the school)
- 2015, Intelligent Systems Engineering Department and Program were approved
- 2017, School of Informatics, Computing, and Engineering
- SICE Population (2018): 3100 (Total), 1962 (Undergraduate), 772 (MSc), 329 (PhD)

## SICE Structure

- Department of Computer Science
- Department of Informatics
- Department of Information and Library Science (graduate program)
- Department of Intelligent Systems Engineering
- Data Science Program (graduate program)

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## Department of Computer Science

#### • Graduate Degrees

- M.S. in Computer Science
- M.S. in Bioinformatics
- M.S. in Secure Computing
- Dual Degree in Secure Computing and the Russian and East European Studies
- M.S. in Cybersecurity Risk Management (jointly with Maurer and Kelley)
- Ph.D. in Computer Science
- Ph.D. in Cognitive Science and Computer Science (A dual major in cognitive science and computer science)
- Ph.D. Minor in Computer Science

#### Department of Informatics

#### Graduate Degrees

• M.S. in Informatics

(Complex systems, proactive health informatics, human-computer interaction design, music informatics, intelligent and interactive systems, computing, culture and society, and virtual heritage)

- M.S. in Human-Computer Interaction Design
- Ph.D. in Informatics (Multiple tracks)

#### • Ph.D. Minors in Informatics

(Bioinformatics, complex networks and systems, data science, human-computer interaction, informatics, music informatics, security

informatics, and social informatics)

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## Information and Library Science

- Master of Information Science (M.I.S.)
- Accelerated Master's Program in Information Science (B.S. or B.A. and a Master of Information Science)
- Master of Library Science (M.L.S.)
- Accelerated Master's Program in Library Science (B.S. or B.A. and a Master of Library Science)
- Ph.D. in Information Science
- Ph.D. minors: ILS, Information Science
- Graduate Certificate in Information Architecture

## Department of Intelligent Systems Engineering

- Graduate Degrees
  - Master of Science in Intelligent Systems Engineering
  - PhD in Intelligent Systems Engineering (Tracks : Bioengineering, Computer Engineering, Cyber-physical Systems, Environmental Engineering, Molecular and Nanoscale Engineering, Neuroengineering)

## Data Science

- Data Science GR CRT
- Data Science MS
- Data Science MS Online

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## Graduate Certificates

- Data Science GR CRT
- Cybersecurity GR CRT
- Information Architecture GR CRT

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## Ranked List by Enrollment

- Data Science Online, 294
- Data Science MS, 145
- Computer Science PhD, 136
- Computer Science MS, 126
- Informatics PHD, 110
- Library Science MLS, 89
- Human Comp Interaction MS, 85
- Intelligent Systems Engineering PhD, 69
- Information Science MIS, 36
- Data Science GR CRT, 34
- Information Science PHD, 25
- Computer Sci-BS/MS, 20
- Intelligent Systems Engineering MS, 11
- Cybersecurity GR CRT, 7
- Secure Computing MS, 6
- Informatics MS, 5
- Information Architecture GR CRT, 1
- Bioinformatics MS, 0

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#### A Peek at the Pipeline

#### • A graduate program in Al

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## A Peek at the Pipeline

- A graduate program in AI
- Experiential learning in Silicon Valley

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• F-1 students need authorization for most categories of work.

- Job fairs
- Classified ad, The Indiana Daily Student (IDS)
- Academic departments
- University employers: Residence halls (cafeterias, center stores, etc.), Indiana Memorial Union (many different positions), Wells Library and school libraries, Museums, Recreational sports (referees, supervisors, etc.).

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- You can work on campus up to 20 hours per week during fall and spring semesters (20 hours combined for all jobs).

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- Applications for OPT can be submitted up to 90 days before program completion date. Need to be received by USCIS no later than 60 days after the completion of the academic program

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- USCIS will need three to four months to process an OPT application.

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- Must have authorization from the OIS before you begin.
- Working without proper authorization is a violation of your legal status that will require the termination of your Student and Exchange Visitor Information System (SEVIS) record.

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- Solid job opportunity, employer is hesitant about the H-1B visa process, the IU Immigration Bridge program can help you get an offer
- Partnership amongst career center, OIS, and a top immigration law firm-*Fragomen, Del Rey, Bernsen & Loewy LLP*-to assist students with H-1B visa needs by streamlining the visa process for potential employers.

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- Start the program when a job offer from a recruiting company is imminent.
- The visa process can take several months, with no guarantee of securing an H-1B visa. Employers will cover the full cost of the H-1B visa process.

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## SICE Career Services

- Especially trained staff in immigration policies
- Very good understanding of the needs of international students
- Applicant tracking system
- Résumé building and strategy design for international students

## Some Stats

- Classes of 2016,2017,2018: 1253 students
- CS MS 36%, DS MS 25%, ILS MS 19%, HCI/d MS 12%,
- In RES group (1125 students): 64% F-1 visa, 33% US Citizen
- In RES group (1125 students): India 50%, USA 34%, China 10%

## Post-Graduation Outcomes (India)-DS

Year	Employed	Seeking Employment	No Inf.	Total
2016	1	0	1	3, 67%
2017	54	5	4	75, 84%
2018	85	6	4	111, 86%

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## Post-Graduation Outcomes (India)-CS

Year	Employed	Seeking Employment	No Inf.	Total
2016	85	0	6	117,78%
2017	145	5	9	208,76%
2018	90	1	7	131,75%

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### Data for 2017-18 CS & DS residential students from India

Total Number Students	369
Total Number With Jobs	252
Percentage Employed	68%
Average Annual Earnings	\$5,635

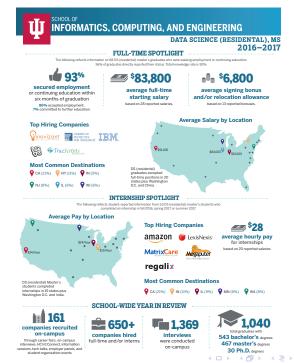
Top Employers	# Students	Av F	Pay
SICE	135	\$	4,654
RPS Dining Services	104	\$	978
IMU Dining	44	\$	1,867
IU Auditorium	36	\$	382
University IT (UITS)	33	\$	6,788
Business School	18	\$	4,950
Research Funded Jobs	49	\$	4,715
Average # Jobs/Student	1.6		

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#### COMPANIES THAT HIRED GRADUATES: FULL TIME

12 West Capital 98point6 Inc	BMK Solutions LLC CIBO Technologies	Homeaway	Microsoft Corporation NTT Data Services	System Technology Group The Honest Company
Absolutdata Analytics	Cummins Inc	IMVU	OpenMail	Truescripts
Aetna Inc Akuna Capital	Deloitte Discover Financial Services	Indiana University Industrial and Commercial	PricewaterhouseCoopers Rare Genomics Institute	United Educators University of California.
American Institutes for	Elevate	Bank of China, New York	Reliance First Capital LLC	Invine
Research	Elutions	Innovizant	Return Path	Wayfair
Arthra Solutions	Footlocker.com/Eastbay	Institute for Molecular	RightStrat	Xometry
Axtria-Ingenious Insights	Ford Motor Company	Engineering	Scientific Games	Yahoo!
Barclays	Funding Circle US	Intel Corporation	Sentry	
BDIPlus	GoPro	Legislative Services Agency	Sivisoft	
Bloom Insurance Agency	Health4TheWorld	Micron Technology	Synechron	

ACCELERATORS

The School of Informatics, Computing, and Engineering's Accelerator Corporate Giving Program is a relationship-enhancing investment opportunity that accelerates a company's ability to address ther specific transfer index. School and the specific and the specific and and practicate future tech industry leaders. For more information on strategically investing with the Accelerator Program, contact Gina Gallagher, Senior Director of Corporate and Foundation Helitors, at galgarilly indication and used 32:66-5147.



#### Notes

The Hiring and Post-Graduation Plans Survey and the Internship Survey are annually administered by the School of Informatics. Computing, and Engineering. In the months leading up to and following the end of the academic year, students are contacted by email and phone and acaded to complete the online survey(5) that apply to them. Linkedin and Pacebook profiles of graduates as well as employer reported hirse were used to contribute to total involvedge rates.

Infographic based on original design by Malena Zook, 2013 Informatics graduate.

School of Informatics, Computing, and Engineering Career Services 700 North Woodlawn Avenue, Bloomington IN 47408

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812-856-6016 sice.indiana.edu/career Follow iusice!



## • Broad and multidimensional education

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- Broad and multidimensional education
- Diversity and Inclusion

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# Why SICE?

- Broad and multidimensional education
- Diversity and Inclusion
- Entrepreneurship and Innovation

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# Why SICE?

- Broad and multidimensional education
- Diversity and Inclusion
- Entrepreneurship and Innovation
- Innovation in education, staying relevant and current

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## Important Dates

- April 15, 2019: Decision deadline
- August 12, 2019: Arrival in US deadline
- August 26, 2019: Classes begin

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Graduate Programs at SICE



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# Thank You!

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## CS Research Areas

- Formal methods for system design, hardware, and robotics
- Foundations: Theory of computing, algorithms, and applied logic
- High-performance computing
- Cybersecurity
- Graphics and visualization
- Programming languages and compilers
- Artificial intelligence and cognitive science
- Distributed and parallel systems
- Database and information systems
- Computer networks and security
- Security informatics
- Bioinformatics

## **INFO** Research Areas

- Complex networks and systems
- Health informatics
- Human-computer interaction design
- Intelligent and interactive systems
- Music informatics
- Social informatics

## **ISE Research Areas**

- Bioengineering
- Computer Engineering
- Cyber-physical Systems
- Environmental Engineering
- Molecular and Nanoscale Engineering
- Neuroengineering

## **Research Centers**

- Center for Applied Cybersecurity Research, 5 affiliated faculty
- Center for Bioinformatics Research, 6 affiliated faculty
- Center for Complex Networks and Systems Research, 13 affiliated faculty
- Center for Data and Search Informatics, 10 affiliated faculty
- Center for Research in Extreme Scale Technologies, 5 affiliated faculty
- Center for Research On Mediated Interaction (CROMI)
- Center for Security Informatics, 7 affiliated faculty

- Cyberinfrastructure for Network Science (CNS) Center, 1 affiliated faculty
- Data to Insight Center, 1 affiliated faculty
- Digital Science Center, 3 affiliated faculty
- Indiana University Network Science Institute, 3 affiliated faculty
- Rob Kling Center for Social Informatics, 8 affiliated faculty
- Web Science Center

## Weather

Climate data for Bloomington, Indiana									[hide]				
Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Year
Record high °F (°C)	78	76	86	91	97	103	110	104	103	96	84	74	110
	(26)	(24)	(30)	(33)	(36)	(39)	(43)	(40)	(39)	(36)	(29)	(23)	(43)
Average high °F (°C)	38.8	42.3	53.0	65.0	75.1	83.2	87.3	85.9	79.7	68.4	53.9	41.6	64.5
	(3.8)	(5.7)	(11.7)	(18.3)	(23.9)	(28.4)	(30.7)	(29.9)	(26.5)	(20.2)	(12.2)	(5.3)	(18.1)
Average low °F (°C)	21.2	23.2	32.1	42.6	52.5	61.4	65.2	63.4	56.3	44.8	34.7	24.6	43.5
	(-6.0)	(-4.9)	(0.1)	(5.9)	(11.4)	(16.3)	(18.4)	(17.4)	(13.5)	(7.1)	(1.5)	(-4.1)	(6.4)
Record low °F (°C)	-21	-20	-2	17	29	36	46	41	26	17	-2	-20	-21
	(-29)	(-29)	(-19)	(-8)	(-2)	(2)	(8)	(5)	(-3)	(-8)	(-19)	(-29)	(-29)
Average precipitation inches (mm)	2.66	2.71	3.66	4.29	5.12	4.07	4.32	3.99	3.62	3.14	3.95	3.38	44.91
	(68)	(69)	(93)	(109)	(130)	(103)	(110)	(101)	(92)	(80)	(100)	(86)	(1,141)
Average snowfall inches (cm)	5.7 (14)	4.4 (11)	2.1 (5.3)	0.4 (1.0)	0 (0)	0 (0)	0 (0)	0 (0)	0 (0)	0.1 (0.25)	1.2 (3.0)	4.7 (12)	18.6 (47)

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