Take your problem-solving skills a step further by using the theoretical and practical applications of technology to shape the future.

The fastest route from idea to application in technology today requires expertise in both abstract and practical thinking. With this graduate program, you'll gain a well-rounded skillset that can help you lead the way in overcoming challenges and creating new computing innovations.

Program Snapshot

- Program type: Master's Degree
- Format: On-campus or online
- Est. time to complete: 2 years
- Credit hours: 32 (non-thesis option) 30 (thesis option)

Why Earn a Master's Degree in Computer Science from UND?

Understanding both the abstract and practical applications of technology will help you to develop the computer science skills that are sought after in today's fast-paced world. You'll better understand underlying theoretical issues along with implementation factors, while using the latest software platforms and systems.

Through this master's degree program in computer science, you'll take in a holistic view of the latest innovations and trends with studies in advanced modeling and simulation, artificial intelligence, algorithms, database systems, software engineering and design, advanced computer graphics, and more. It's exactly the preparation you need for today's high-demand tech careers.

UND Research Focuses on the Big Data Challenge

UND is a leader in big data expertise as the lead institution in a multi-university project for digital agriculture, funded by the National Science Foundation. And it's also co-lead in another NSF project to determine industry and academic computational needs in the Midwest.

Work Worth Doing

As a leader of Big Data, UND's goal is to make things more efficient, more effective and safer for North Dakotans.

Application Deadlines

- Fall: Aug. 1
- Spring: Dec. 1

Master's in Computer Science

- Advance your technology skills with a curriculum that encourages a formal, abstract, theoretical and practical approach to the study of computer science.
- Develop creative thinking, problem solving and research skills, along with specialized expertise.
- Gain access to on-campus computing power: two computer labs, a set of diverse servers and a high-performance computing (HPC) system.
UND built its supercomputer with the HPE DL360 and Apollo 6500 Gen10 systems, an ideal end-to-end platform to support deep learning while delivering high-performance, versatility and security for workload management.

Careers in Computer Science

90%  Job placement rates are consistently above that level for UND computer science program graduates.

93K  Average salary for a software engineer with a master's in computer science*

*Payscale.com

UND computer science graduates have gone on to careers all over the world in all types of industries, including high-tech, defense, aviation, financial and more. Our graduates are employed by: Apple, Digi-Key, Fast Enterprises, Google, HGST, Microsoft, Honeywell, Rockwell-Collins, Blue Cross Blue Shield, Goldman Sachs, Deutsche Bank, NASA, Unisys, and Mayo Clinic.

When You Earn a master's degree in Computer Science

With a master's in computer science, you can be competitive in mid- to high-level opportunities related to computers systems and applications, such as:

- Software Engineer
- Systems Engineer
- Cybersecurity Specialist
- Systems Integration Engineer
- Computer Scientist
- Network Analyst

UND Computer Science Alumni

Computer Science alumni have gone on to a variety of successful careers with:

- Digi-Key Corporation
- Rockwell Collins, Inc.
- Amazon.com, Inc.
- Altru Health System
- Newscycle Solutions, Inc.