

**Underwater Robot Testing**

# Research Experience for Undergraduates

## On Cyber-Physical System Cybersecurity

### 10 WEEK PROGRAM

**Program Runs:** June - August, 2019

**Application review:** begins March 23

#### Gain hands on experience writing software for robots and with cybersecurity tools

Student participants will work on real research projects, guided by experienced mentors. You will get the opportunity to work with cutting edge robots and other cyber-physical systems (such as SCADA systems, building automation and sensor networks). You will also get to use real-world cybersecurity tools and solve real cybersecurity problems!

#### Get paid and gain a great item for your resume ...

Participants will receive a stipend of up to \$5,000, room and board, up to \$750 for travel reimbursement to/from Fargo and use of athletic facilities.

#### Learn how to develop software that has to work securely ... where it matters ...

Software for robots and other cyber-physical systems has to work — and it has to be secure. If it doesn't work or malfunctions, people could be injured or property could be destroyed. Learn best practices that apply to any software development environment.

#### Visit a Missile Silo and a Cybersecurity Event

As part of the REU, students will get to visit a decommissioned missile silo and learn how nuclear missiles were secured. The group will also attend a national cybersecurity event, featuring hacking competitions, scholarly presentations and more.

**Be a part of a National Science Foundation-funded Research Experience for Undergraduates focused on cyber-physical system cybersecurity.**

#### Learn more and apply at:

<https://www.ndsu.edu/cybersecurity/reu/>



**NDSU** COMPUTER SCIENCE

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