

Doctoral

# Computer Science

## Degrees Available at SIUE

- Doctor of Philosophy

## Areas of Concentration

- Computer Science

## Computer Science at SIUE

The School of Engineering at Southern Illinois University Edwardsville participates in the Doctor of Philosophy degree in Computer Science offered by the College of Science at Southern Illinois University Carbondale. A memorandum of understanding exists between the campuses that designates SIUE as an approved residence center. As a result, the coursework completed at SIUE is applicable toward SIUC's residency requirements.

The collaborative PhD program is supported by research activities and projects of the SIUE School of Engineering faculty. The School is currently housed in the 190,000-square-foot Engineering Building that features state-of-the-art laboratories for research and instruction.

The School of Engineering administers the Environmental Resources Training Center (ERTC), and ENGTEC, a cross-disciplinary business, manufacturing and technology incubator, fabrication and proof-of-concept facility. Additionally, the National Corn to Ethanol Research Center (NCERC) is housed on the SIUE campus. With its resources and facilities, the SIUE School of Engineering is strategically well-positioned to provide the best educational experience for our students.

## Admission Requirements

Applicants must meet the admission requirements of the SIUE and SIUC Graduate Schools and must be approved by the Graduate Studies Committee of the SIUC College of Engineering. Admission requirements include:

- Master's in computer science or a related field with a minimum GPA of 3.25/4.0
- GRE scores submitted to SIUE (institution code 1759)
- Three letters of recommendation
- Statement of purpose
- Any additional evidence of scholarly ability and/or achievement (awards, scholarships, work experience, published research papers, CV, resume)
- TOEFL scores for non-native speakers of English submitted to SIUE (institution code 1759)
- Minimum of funding for international students of U.S. \$42,500 for each year of the proposed course of study, including funds from a graduate assistantship

In exceptional cases, high achieving students with only bachelor's degrees will be admitted to the program. Each student, in addition to the PhD program course requirements must complete at least 15 semester hours of approved computer science courses including CS 401, CS 420, CS 455 and two 500-level lecture courses, with a minimum accumulated GPA of 3.25/4.0 in those courses. If a specific course, or its equivalent, is already part of the student's academic background, an alternate course will be submitted.

For information about GRE and/or TOEFL, or to register for either test, please contact Testing Services at 618-650-1246 or [testingservices@siue.edu](mailto:testingservices@siue.edu).

# SIUE

SIUC College of Arts and Sciences  
SIUE School of Engineering

## Administrator

**Keqin Gu, PhD**

1988, Georgia Institute of Technology

SOUTHERN ILLINOIS UNIVERSITY  
**EDWARDSVILLE**

SCHOOL OF ENGINEERING

## Application Process

Some application materials must be sent to SIUE while some must be sent to SIUC. Follow the instructions below to ensure your application review is not delayed. Documents under each institution must be received by that institution before applications will be reviewed by that institution.

### SIUE Application

- Applicants must complete the online application
- Official bachelor's transcript
- Official master's transcript
- Official GRE Score (institution code 1759)
- Three letters of recommendation
- Statement of purpose
- Evidence of scholarly ability and/or achievement
- Current SIUE non-refundable application fee in U.S. dollars
- International students
- Official TOEFL Score (institution code 1759)

Official transcripts must be sent electronically to [etranscripts@siue.edu](mailto:etranscripts@siue.edu) directly from the institution or mailed to:

SIUE Graduate and International Admissions  
Coop PhD Application  
Campus Box 1047  
Edwardsville, IL 62026-1047

### SIUC Application

- Applicants need to submit an electronic application
  - Create an account
  - Program selection will be Computer Science
  - Degree selection will be PhD
  - When asked to provide letters of recommendation, enter SIUE as the recommender with the email address of [siueapps@siue.edu](mailto:siueapps@siue.edu)
    - This will allow SIUE to attach the letters of recommendation already submitted to SIUE to SIUC.
  - International Students
    - Copy of Passport
    - Financial Statement
      - This document is found at the end of the SIUC application. It must be completed even if you have been promised an assistantship.
      - Before you can be admitted, it is necessary for you to indicate that a minimum of U.S. \$40,500 will be available to you for each year of your proposed course of study.
      - Be sure to indicate if your studies are totally dependent upon an assistantship or if you have personal funds to fulfill this requirement.
      - If you have personal funds, be sure to submit official documentation of funds and amounts via a recent bank statement
  - Current SIUC non-refundable application fee in U.S. dollars (credit card only)

## Admission Process

Your application will be reviewed by the SIUE School of Engineering and the SIUE department you plan to work with. If the application receives approval from these two entities, it will be reviewed by the appropriate SIUC college and department. If it receives approval from these two entities, it will be reviewed by the SIUC Graduate School. Your application can only be deferred one time. Therefore, if your application does not receive approval in time for the semester you apply, it must be approved in time for the next or it will be withdrawn and you will have to reapply. SIUC grants or denies final admission to the program.

### Requirements for Retention

The rules of the SIUC Graduate School apply. In addition, students holding graduate assistantships are required to carry no more than two incomplete grades at any given time to be eligible to continue their assistantship appointments.

### Graduation Requirements

In order to graduate, students of the PhD program must have successfully completed the following requirements:

- All requirements of the SIUC Graduate School must be satisfied.
- A minimum of 24 hours of doctoral-level coursework must be completed. The grade point average must be 3.25 or higher on a scale of 4.00.
- An acceptable dissertation must be completed within five years after admission to candidacy. In the event the dissertation is not completed in the set time frame, the student will be required to take and pass the candidacy exams again.

The doctoral degree is conferred by SIUC. Students must apply for graduation and pay application fees by the deadline via Salukinet.

### Curriculum

The computer science program consists of 24 credit hours of 400/500 level courses and 24 credit hours of CS 600 Dissertation research, all of which are subject to the following constraints:

- Two one-credit seminar courses
- Six credit hours from approved computer science 400/500 level courses
- Six elective credit hours of CS 500 level courses
- Six credit hours of 400/500 level courses from approved academic departments other than computer science

The student will work with the Dissertation Committee to supervise the remaining doctoral work. This committee will consist of five graduate faculty members, one or two of whom will be from a graduate program outside the Department. The student's dissertation advisor will serve as the Chair of this committee.

The minimum course requirements are listed in the SIUC Graduate Catalog as well as the computer science website.