



Application form

Supervised Undergraduate Research Experiences (SURE)

Computing and Data Education (CoDE) Program

Department of Computer Science, Southern University

WHAT IS SU-CODE PROGRAM? The program aims to harness the role of computation and data science and prepare STEM professionals who can confront the challenges in computational and data-enabled science to effectively analyze computational and big data problems in their disciplines.

WHY SU-CODE PROGRAM IS IMPORTANT? There is a shortage of almost 1.5 million professionals with analytical skills for domain-specific big data problems in the United States. Computing occupations will display the largest ten-year growth of any sector and these skills provides students a high-potential employment and successful STEM career pathways.

WHAT ARE THE BENEFITS OF PARTICIPATING IN SU-CODE PROGRAM? Undergraduate students will have 10 hours financial support to complete capstone projects related to computing and data science and will receive an Undergraduate Certificate in Computational Data Engineering and Science. More information can be found here: <http://www.subr.edu/page/CoDE>

WHO CAN PARTICIPATE IN SU-CODE PROGRAM? All the STEM students at the Southern University Baton Rouge campus are welcome to complete this application form to possibly join the SU-CoDE program. The selected students will be supported under the SU-CoDE program to work with the faculty advisors from computer science or your department on your domain-specific problems.

Personal Information:

Full Name: _____ Gender: female male, U number: _____

Major: _____ GPA: _____, In-state or Out-of-state Student

Expected Graduation Semester: _____ Year: _____, Credit hours completed: _____

Application Questions:

1. Provide information about your courses related to programming, computational, or data analysis courses you completed:

Course Title: _____, Course Number: _____, Grade: _____

Course Title: _____, Course Number: _____, Grade: _____

Course Title: _____, Course Number: _____, Grade: _____

2. Describe a course you have taken in your major related to computational, simulation and/or data analysis, if any (e.g. computational analysis, data science and analysis, programming and simulation, AI, machine learning, etc.)?

3. How do you recognize your need, if any, to improve your knowledge of computing and data science for your major?

Very Frequently Frequently Occasionally Rarely Very Rarely Never

Note: _____

4. Which courses in your major can benefit more by integrating topics related to computing, programming and data analytics methods?

Course Title: _____ Course Number: _____

Course Title: _____ Course Number: _____



5. What computer science skill you need to be taught in your major (e.g. program or concentration)?

Expalin: _____

6. For 10-hours per week research activities on this project do you intend to attend and use the lab computers (with social distancing), or you plan to work remotely? Attend the lab in-person Remote

7. Are you willing to complete six specific courses related to programming and data sciences and obtain an Undergraduate Certificate in Computational Data Engineering and Science (CoDES). Non-CS Students can match some of their programming courses with the SU-CoDE's required courses (for grades C or above.)

Definitely Very Probably Probably Possibly Probably Not Definitely Not

8. If you receive the research stipend, are you committed to spend 10 hours per week on your assigned research and attend group meetings (remotely or in-person), present your research progress, and finally attend local conference to present your research findings?

Definitely Very Probably Probably Possibly Probably Not Definitely Not

9. Do you have any badge, certificate, award in your field or related to computing and data science (e.g. AWS or IBM, Google, etc.)?

A. _____ B. _____ C. _____

10. Do you have any research-oriented activity whether in your field or related to computing and data science?

Explain: _____

11. Provide name and contact information of faculty in your department who will potentially agree to serve as your reference or advisor for your capstone project.

Name: _____ Email Address: _____, Phone number: _____

12. Explain how your field of interest can benefit from the knowledge of computing and data science:

Explain: _____

13. Explain how you want to use the knowledge of computing and data science after graduating from your major?

Explain: _____

14. Provide any other information that shows your qualification and interest to receive the research stipend. The evidence that shows you have already engaged in the research in your major or related to computing and data science.

Explain: _____

