The advanced degree program in Computational Science and Engineering addresses the current need for sophisticated computation in both engineering and the sciences. Such computation requires an understanding of parallel and vector capabilities and a range of subjects including visualization, networking, and programming environments. An awareness of a variety of new algorithms and analytic techniques also is essential to maximizing the power of the new computational tools.

The Master of Computational Science and Engineering (MCSE) professional master’s degree is for persons interested in practicing within this field, while the PhD program concentrates more specifically on research.

A coordinated MBA/MCSE degrees program is also offered in conjunction with the Jesse H. Jones Graduate School of Business.

Computational Science and Engineering does not currently offer an academic program at the undergraduate level.

Master's Programs
- Master of Computational Science and Engineering (MCSE) Degree ([ga.rice.edu/programs-study/departments-programs/engineering/computational-science-engineering/computational-science-engineering-mcse](ga.rice.edu/programs-study/departments-programs/engineering/computational-science-engineering/computational-science-engineering-mcse))
- Master of Arts (MA) Degree in the field of Computational Science and Engineering*

Doctoral Program
- Doctor of Philosophy (PhD) Degree in the field of Computational Science and Engineering ([ga.rice.edu/programs-study/departments-programs/engineering/computational-science-engineering/computational-science-engineering-phd](ga.rice.edu/programs-study/departments-programs/engineering/computational-science-engineering/computational-science-engineering-phd))

Coordinated Programs
- Master of Computational Science and Engineering (MCSE) Degree / Master of Business Administration (MBA) Degree ([ga.rice.edu/programs-study/departments-programs/engineering/computational-science-engineering/business-administration-mba-computational-science-engineering-mcse](ga.rice.edu/programs-study/departments-programs/engineering/computational-science-engineering/business-administration-mba-computational-science-engineering-mcse))

* Although students are not normally admitted to a Master of Arts (MA) degree program, graduate students may earn the MA as they work towards the PhD.