The Center for Computing Research (CCR) at Sandia National Laboratories seeks multiple students to participate in collaborative research across a wide range of areas in computer science, applied mathematics, discrete mathematics, mathematical modeling, computational science and engineering, computational neuroscience and cognitive science (including cognitive and experimental psychology, neuroscience, and linguistics). Possible research areas include advanced computer architectures, systems software, programming languages and paradigms, networks, informatics and information sciences, combinatorial mathematics, discrete event simulation, scalable linear and nonlinear solvers, continuous and discrete optimization, uncertainty quantification, statistics, multiscale methods and mathematics, multiphysics modeling, visualization, visual cognition, meshing, cybersecurity, advanced modeling and simulation, human decision modeling, machine learning, brain inspired computing and assessing human performance. Students are also sought with interests in applying computational methods to scientific and engineering applications including shock physics, molecular dynamics, MHD, CFD, electrical systems, MEMS, and climate science. These student internships are for motivated and enthusiastic individuals with excellent communication skills and who have the desire to gain research experience in a highly collaborative research environment. Successful applicants will be exposed to a wide range of computational and/or cognitive research at Sandia and will have a strong project-based research experience working directly with Sandia staff scientists.

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