|  |  |  |  |
| --- | --- | --- | --- |
| **Institute Name & Description** | **When** | **Available to** | **Location** |
| **Computer Science Research Institute (CSRI)**The Computer Science Research Institute (CSRI) at Sandia creates technology and solutions for many of our nation's most demanding national security challenges. Our work includes computer system architecture; enabling technology for modeling physical and engineering systems; and research in discrete mathematics, data analytics, cognitive modeling, and decision support materials. | Year-round, Summer, and Co-op | Upper-division undergraduate students and graduate students majoring in Computer Science, Math, Statistic Science, or Engineering | NM and CA |
| **Future of Research for Climate, Earth, and Energy (FORCEE)**The goal is to enhance the standard Sandia internship experience by providing unique and engaging experiences for students interested in challenging climate, earth, and energy problems. As Sandia invests more in Climate, Earth, and Energy, this new intern institute will support both Sandia’s commitment to programs such as climate change, renewable energy, and nonproliferation. We aim to develop robust relationships with academic institutions to develop a pipeline for students to engage with Sandia before becoming an intern and hopefully become the next generation of climate, earth, and energy researchers. | Summer | Undergraduate and graduate students majoring in Electrical Engineering, Mathematics, Physics and Geosciences | NM |
| **Interdisciplinary Design, Engineering, and Assurance Students (IDEAS**)The Interdisciplinary Design Engineering and Assurance Students (IDEAS) institute is an intern program with a technical focus in engineering design, component/subsystem development, and product testing. Our products serve both Nuclear Deterrence and Strategic Partnership Programs. | Year-Round, Summer | Undergraduate and graduate students majoring in Computer Science, Computer Engineering, Electrical Engineering, Mechanical Engineering, Aerospace Engineering or Related Discipline | NM |
| **Interns for Security, Arms Control, and Force Protection Engineering (iSAFE)**The Interns for Security, Arms Control, and Force Protection Engineering (iSAFE) program gives interns the opportunity to develop next-generation systems for compelling national security missions. Interns work on complex and challenging problems to lower the risk posed by high-consequence events, such as nuclear and biological proliferation, terrorist threats, catastrophic incidents, and potentially destabilizing events. | Year-Round, Summer, and Co-op | Undergraduate (sophomore and higher) and graduate students majoring in Biochemistry, Chemical Engineering, Computer Science, Electrical Engineering, Computer Engineering, Mechanical Engineering, or a related field of study | NM |
| **Monitoring Systems and Technology Intern Center (MSTIC)**Develop remote sensing and technologies for the next-generation systems to meet a variety of national security needs, including space missions, treaty verification, nuclear nonproliferation, cooperative monitoring, surveillance, and reconnaissance. | Year-Round, Summer, and Co-op | Undergraduate and graduate students majoring in Computer Science, Aerospace. Optical, Electrical, Computer, Mechanical, or Systems Engineering; Materials Science, Physics, Mathematics, Geophysics, Seismology, or a related field of study | NM |
| **Mission Services Talent Acquisition Team (MSTAT)**The Mission Services Talent Acquisition Team (MSTAT) recruits top business talent for the Mission Services Division at Sandia National Laboratories. The MSTAT Intern Program offers practical professional experience at the nation’s top research and development laboratory, as well as meaningful research in multiple business disciplines. | Year-Round, Summer | All Business Disciplines | NM |
| **Nonlinear Mechanics and Dynamics (NOMAD)**The Nonlinear Mechanics and Dynamics (NOMAD) Research Institute brings together graduate students and early career researchers to work in small teams on computational and experimental projects germane to nonlinear mechanics and dynamics. | Summer | Undergraduate, Graduate students (MS and PhD), Early Career (post PhD) in Aerospace, Applied Mathematics, Civil Engineering, Engineering Mechanics or Related Discipline | NM |
| **Research and Applications of Mechanics of Structures (RAMS)**The Research and Applications of Mechanics of Structures (RAMS) Institute provides students an opportunity to work with outstanding technical staff in providing engineering solutions to national security mission deliverables. Institute participants will research, develop, and apply computational capabilities to define mechanical environments and simulate response of complex structural systems subjected to extreme loading conditions. | Summer | Undergraduate (Junior and higher) and graduate students majoring in Aeronautical Engineering, Civil Engineering, Engineering Mechanics, Materials Engineering, Mathematics,Mechanical Engineering, or Shock Physics | NM |
| **Resilient Energy Systems Intern Institute (RESII)**The Resilient Energy Systems Intern Institute (RESII) is an innovative program that is focused on providing undergrad and graduate students with exciting and challenging opportunities to progress their science and engineering foundation.  Our student interns will support the Resilient Energy Systems Mission Campaign. The goal of the Mission Campaign is to develop a more resilient U.S. energy grid and critical energy infrastructure system to threats and attacks.  | Year-round and summer | Undergraduate and graduate students majoring in Computer Science, Materials Science, Mathematics, Mechanical Engineering, Electrical Engineering, and Nuclear Engineering | NM and CA |
| **Science of Extreme Environments Research Institute (SEERI)**The Science of Extreme Environments Research Institute (SEERI) provides undergraduate and graduate students with the opportunity to gain experience in the areas of radiation effects sciences, pulsed-power engineering, and high-energy-density sciences. Students work directly with Sandia scientists and engineers to conduct research on a focused project. | Year-Round, Summer | Undergraduate and graduate students majoring in Engineering, Physics, Mathematics, Computer Science, Radiation Effects Science | NM |
| **START HBCU**The START HBCU Intern Institute is a multi-disciplinary institute focused on solving issues of national significance through partnerships with HBCUs. Institute members work closely with Sandia’s staff and fellow interns on a variety of R&D and business projects that contribute to Sandia’s vital mission as a DOE National Laboratory. This institute supports and engages students from HBCUs as they become part of the Sandia workforce.  | Summer | Undergraduate and graduate students who attend HBCUs | NM and CA |
| **TITANS: Software** TITANS-SW interns collaborate with software engineering experts to develop significant mission applications, including remote sensing, data analysis, and real-time applications. Projects may range from working on small research-and-development (R&D) efforts to joining large, multidisciplinary teams that are developing software systems with more than one million lines of code. | Year-Round, Summer | Undergraduate (sophomore and higher) and graduate students majoring in Computer Science and Computer Engineering | NM |
| **TITANS Cyber: Center for Cyber Defenders (CCD)**The Center for Cyber Defenders (CCD, TITANS-Cyber) is the premier intern institute for growing R&D cybersecurity staff members for national security. We provide opportunities for undergraduate and graduate students to grow their knowledge and professional experience in every aspect of the cybersecurity domain, ranging from enterprise security to industrial control systems, from the hardware layer to cloud applications, from data science to reverse engineering, and everything in between. | Year-Round, Summer | Undergraduate, and graduate students majoring in Cybersecurity, Computer Science, Computer Engineering, or Electrical Engineering | NM and CA |
| **TITANS Math & Analytics (MARTIANS)**TITANS - Math & Analytics or The Mathematics and Analytics Research Technical Internship for Advanced National Security (MARTIANS) engages students in many of Sandia’s national security focus areas, including global security, cyber security, energy and climate.During the 10-week program, MARTIANS interns will partner with Sandia scientists and engineers to create and develop innovative solutions to challenging national security problems. | Year-Round, Summer | Undergraduate and graduate students majoring in Engineering, Mathematics, Physical Science or Statistical Science, all with Computer Science minor, or strong programming skills | NM |
| **TITANS – Autonomy New Mexico (AutonomyNM)** is intended to be an innovation hub for advanced flight and space systems to deliver transformative autonomous solutions in support of Sandia’s national security missions and beyond. The program also enables collaborative research focused machine learning, navigation, guidance, and control algorithms, and adversarial reinforcement learning with Sandia’s Academic Alliance universities and other leading engineering schools across the nation. | Year-Round, Summer, and Co-op | Undergraduate and graduate students majoring in Computer Science, Computer Engineering, Electrical Engineering, Mechanical Engineering, Math, Statistics and Aerospace. | NM |