

ABOUT THE NATIONAL PARK SERVICE AND THE SUBMERGED RESOURCE CENTER

The National Park Service (NPS) has the oldest non-military diving program in the federal government and has direct management responsibility for more than 3.5 million acres of submerged areas. NPS rangers, scientists, and divers work from Maine to Guam, Alaska to the Virgin Islands and everywhere in between. The NPS annually completes ~4000+ dives by ~125 divers with operations that occur in high altitude lakes in the Rocky Mountains, in desert reservoirs, on coral reefs, in the Great Lakes and in glacial bays. NPS divers conduct more diverse diving, in more remote areas, than any other agency in the federal government.

The NPS Submerged Resources Center (SRC) was established in 1980 to be the agency experts in inventorying and interpreting our shared underwater world. The team of underwater professionals includes experts in archaeology, photography, and marine remote sensing, as well as specialists in dive equipment maintenance and photogrammetry. They work closely with Parks, partners, and stakeholders to ensure that our natural and cultural resources are protected and enjoyed by present and future generations. The SRC is an agency leader in operational diving, closed-circuit and mixed-gas diving operations, underwater imaging and filmmaking, training, and multidisciplinary science-based research. SRC maintains close ties with NPS divers in parks, regions and other programs inside and outside the National Park Service.

INTERNSHIP DESCRIPTION

This internship will provide a unique opportunity to work with leading underwater photographers and scientist throughout the National Park Service. In 2024 the internship will be focused on photogrammetry - the science and technology of obtaining reliable measurements, maps, digital elevation models, and structure-from-motion models utilizing a combination of underwater photography and computer processing.

The internship will be based in Denver, Colorado but will travel to projects within the National Park System. The intern will spend 1-3 weeks on each project and assist the SRC with advanced photogrammetry surveys involving the NPS SeaArray— a unique and world-class multi-camera, high resolution imaging system. These projects may include generating large-scale biological visualizations of coral reefs in places like Dry Tortugas, American Samoa, or Biscayne National Park, or 3D models of shipwrecks and WWII sites at Isle Royale National Park, USS *Arizona* National Memorial, and other NPS units in the Pacific.

Key capabilities for the intern include: a solid foundation in marine science, robust computer skills, an ability to communicate to a lay audience in writing, and a high degree of competency in scuba diving.