

# Qualifications for NMFS Permits

**Instructions:** Please submit the following qualifications information with your permit application and upload to your profile on the [Authorizations and Permits for Protected Species \(APPS\)](#) webpage. There should only be one form per individual. See examples of completed qualifications by permit type on our [website](#).

Persons authorized as the **Principal Investigator** (PI) or **Co-Investigators** (CI) must demonstrate qualifications commensurate with their duties. **If sufficient experience is not provided, personnel will not be authorized to conduct the proposed activities.**

## 1. Contact Information

All documentation submitted will be publicly available. **DO NOT** include personal information (e.g., social security number, date of birth, home phone).

**Name** (first, middle initial, last):

**Title:**

**Affiliation:**

**Business e-mail address:**

**Business phone number:**

## 2. Table 1. Relevant Education

Degree	Major/Field of Study	Institution and Location	Year Received

## 3. Relevant Experience

### A. Table 2. Relevant Professional History

Job Title	Role	Affiliation	Location (City, State, Country)	Dates (MM/YY- MM/YY)

**B. Summary of Experience**

Please choose Option 1 (Table) **OR** Option 2 (Biosketch). Delete the option not used.

**Option 1- TABLE.** In the table below:

1. List **all procedures** that you are requesting to perform **under any NMFS permit**. See Appendix 1 for a list of commonly used procedures (e.g., photo-ID, biopsy sampling, suction-cup tagging, dart tagging, capture and handling, UAS pilot).

Do not include procedures for which you have no experience, training or education. Note you may update your Qualifications Form at any time. Only combine procedures in the same row for which you have the same experience metrics.

2. Experience Metrics for each procedure:

- a) To the best of your ability, estimate the number of animals, how long you have been performing the procedure(s) (e.g., hours/months/years), by species and age class.
- b) Most recent year performed.
- c) Select the level of experience:
  - Level 1:** I have received education/training in performing this procedure, but have **not successfully performed** the procedure.
  - Level 2:** I have performed this procedure while **under supervision or training** of an expert (e.g., PI, CI, or veterinarian).
  - Level 3:** I have performed this procedure **without supervision** by a PI/CI.
  - Level 4:** I am considered an **expert** in performing this procedure, and I have **supervised or trained** others in performing this procedure.

Table 3. Summary of Experience.

Procedures	Experience Metrics: Estimated Number of Animals, Hours/Months/Years, Species, and Age Class	Most Recent Year Performed	Level of Experience

**Option 2- BIOSKETCH**

Provide a biosketch describing your experience with **all procedures** that you are requesting to perform **under any NMFS permit**. See Appendix 1 for a list of commonly used procedures (e.g., photo-ID, biopsy sampling, suction-cup tagging, dart tagging, capture and handling, UAS pilot). To the best of your ability, include experience metrics to **estimate the number of animals by species and age class and how long you have been performing the procedure (e.g., months/years)**.

**Avoid** vague phrases such as “*assisted with,*” or “*participated in,*” which qualify only as Level 1 experience and will not adequately demonstrate your experience performing the procedure if you have Level 2 experience or above. You may use the Level 1-4 categories described in Option 1 to supplement the descriptions of your experience.

**4. Relevant Training, Certificates, or Licenses**

Include additional information to support your qualifications including **specialized training** (e.g., intrusive tagging, biopsy sampling, UAS) and **certificates or licenses** (e.g., diver certification, Federal Aviation Administration certification) received **relevant to the procedures in Table 3 or your Biosketch**. For training, include description of training, year(s) received, and institution or expert who trained you. For certificates or licenses, include year received and expiration date. For UAS pilots, include your total flight hours.

**5. Relevant Peer-reviewed Publication History** (2 pages maximum)

List your **relevant** publication history **to support your qualifications**. This list does not need to be exhaustive, but should demonstrate that you have published and are reasonably likely to publish in peer-reviewed journals, or make results of permitted research available. You may provide a link to a webpage or Google scholar list for your complete publication history.

**6. Relevant Reports and Presentations** (1 page maximum)

List other reports or presentations **to support your qualifications** as described above.

**Appendix 1. Procedures available in APPS, by taxa.**

<b>Cetaceans</b>	<b>Pinnipeds</b>	<b>Sea Turtles</b>	<b>Fishes</b>
Acoustic, active playback/broadcast	Acoustic, active playback/broadcast	Auditory brainstem response test	Anesthetize (MS-222 or Electronarcosis)
Acoustic, passive recording	Acoustic, passive recording	Acoustic deterrent device trial	Borescope
Acoustic, sonar for prey mapping	Acoustic, sonar for prey mapping	Bioelectrical impedance analysis	Captive, (breed, maintain, or public display)
Auditory brainstem response test	Administer drug, (IM, IV, IP, subcutaneous, topical)	Bycatch reduction experiments	Captive, field studies
Capture	Anesthesia, (injectable sedative or gas [cone, mask, intubation])	Captive, lab experiments	Captive, lab experiments
Captive, (maintain or research)	Auditory brainstem response test	Count/survey	Collect eggs or sperm (wild)
Collect, remains for predation study	Bioelectrical impedance (subcutaneous or surface)	Epibiota removal	Instrument, external (e.g., VHF, satellite)
Collect, sloughed skin	Calipers (skin fold)	Imaging (e.g., MRI, CT, CAT, X-Ray)	Instrument, internal (e.g., VHF, sonic)
Count/survey	Captive, maintain	Insert stomach telemeter pill	Laparoscopy
Imaging, thermal	Capture	Instrument, drill carapace attachment	Lavage, gastric
Insert ingestible telemeter pill	Cognitive studies	Instrument, epoxy attachment (e.g., satellite tag, VHF tag)	Mark, (Carlin dangler, Floy T-bar, bovine/DNA, coded wire, dart, disk anchor, elastomer, or OTC)
Instrument, belt/harness	Collect, (molt, scat, spew, urine)	Instrument, harness attachment	Mark, (M-tag, PIT tag, double barb tag, or roto tag)
Instrument, dart/barb	Count/survey	Instrument, suction-cup attachment	Measure and weigh
Instrument, bolt/pin	Instrument, external (e.g., VHF, SLTDR)	Instrument, pygal attachment	Necropsy
Instrument, deep-implant	Instrument, internal (e.g., PIT)	Laparoscopy	Photograph/Video
Instrument, suction-cup	Mark, (bleach, clip fur, dye/paint, flipper tag, freeze brand, hot brand, neoprene patch)	Lavage	Remote vehicle, aerial fixed wing or (VTOL)
Lavage	Measure and weigh	Mark, (PIT tag, carapace, flipper tag, oxytetracycline injection, or visual)	Remote vehicle, vessel or amphibious
Mark, (freeze brand/ roto tag)	Metabolic chamber/hood	Measure and weigh	Salvage (carcass, tissue, or parts)
Measure and weigh	Observation, (mark resight, monitoring, or behavioral)	Orientation research	Sample, blood

<b>Cetaceans</b>	<b>Pinnipeds</b>	<b>Sea Turtles</b>	<b>Fishes</b>
Measure colonic temperature	Photograph/Video and Photo-Identification	Photograph/Video	Sample, (barbel clip, fin clip, fin ray, scute, scute spine)
Metabolic chamber/hood	Photogrammetry	Recapture (gear removal)	Sample, biopsy (gill, gonads, liver, or muscle)
Observation, behavior or monitoring	Remote video monitoring	Remote vehicle, aerial (VTOL or fixed wing)	Transport
Photograph/Video and Photo-Identification	Remote vehicle, aerial (VTOL or fixed wing)	Remote vehicle, amphibious or vessel	Treatment, prophylactic or therapeutic
Photogrammetry	Remote vehicle, amphibious or vessel	Salvage (carcass, tissue, or parts)	Ultrasound
Remote vehicle, vessel or amphibious	Restrain, (board, cage, hand, or net)	Sample, blood	
Remote vehicle, aerial (VTOL or fixed wing)	Salvage (carcass, tissue, parts)	Sample, swab (cloacal, nasal, or oral)	
Restrain	Sample, blood	Sample, biological (fecal, fat, scute, tissue, or tumor)	
Sample, swab (anal, blowhole, oral, or vaginal)	Sample, biopsy (blubber, skin, or muscle)	Sample, biopsy (bone, muscle, organ)	
Sample, blood	Sample, (nail, hair, or vibrissae)	Tracking	
Sample, biopsy (skin, blubber, or muscle)	Sample, swab (anal, nasal, ocular, oral, fecal, or mucus membranes)	Transport	
Sample, exhaled air	Sample, (milk, fecal [enema or loop], urine, or stomach)	Tumor removal	
Sample, biological (milk, urine, fecal, or sperm)	Sample, tooth extraction	Ultrasound	
Sample, tooth extraction	Serial blood samples (Evans blue, hormones)		
Tracking	Transport		
Transport	Ultrasound		
Ultrasound	Underwater photo/videography		
Underwater photo/videography	X-ray		
X-ray			

**Applicable Laws**

This information is required to accompany the Marine Mammal Protection Act (MMPA) Section 104 and/or Endangered Species Act (ESA) Section 10(a)(1)(A) permit application and is used to determine whether individuals conducting activities proposed under a requested permit possess qualifications commensurate with their duties and responsibilities identified in the application (50 CFR §§216.35 and 222.308).

All permit documentation, including the application, qualifications, permit, amendments, reports, and any other associated documents are considered public information and as such, are subject to the Freedom of Information Act.

**Paperwork Reduction Act Statement**

A Federal agency may not conduct or sponsor, and a person is not required to respond to, nor shall a person be subject to a penalty for failure to comply with an information collection subject to the requirements of the Paperwork Reduction Act of 1995 unless the information collection has a currently valid OMB Control Number. The approved OMB Control Number for this information collection is 0648-0084. Without this approval, we could not conduct this information collection. Public reporting for this information collection (i.e., the permit application and qualifications) is estimated to be, per response, approximately 50 hours for MMPA/ESA scientific research and enhancement permit applications, 20 hours for MMPA/ESA parts permit applications, and 10 hours for MMPA photography permit applications, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the information collection. All responses to this information collection are required to obtain a permit pursuant to, as applicable, the ESA, Fur Seal Act, MMPA, National Environmental Policy Act, and their implementing regulations. Send comments regarding this burden estimate or any other aspect of this information collection, including suggestions for reducing this burden to the Chief, Permits and Conservation Division, Office of Protected Resources, F/PR1, NOAA/National Marine Fisheries Service, 1315 East-West Highway, Silver Spring, MD 20910; email [nmfs.pr1.apps@noaa.gov](mailto:nmfs.pr1.apps@noaa.gov).