



# Fish Health Section



## FHS NEWS – September 2024

**Fish Health Section website:** <https://units.fisheries.org/fhs/>

**Fish Health Section Facebook Site:** <https://facebook.com/FishHealthSectionAFS>

**Fish Health Section on LinkedIn:** Please join our newest social media network at LinkedIn Login, Sign in or search for us and ask to join.

**Fish Health Section Twitter feed:** @AFSFishHealth

## MEETINGS, WORKSHOPS & COURSES

**OPEN CALL FOR SUBMISSIONS:** The American Veterinary Medical Association's Aquatic Veterinary Medicine Committee is looking for presentation submissions for a session at Aquaculture 2025 called "Innovative Veterinary Practices in Aquaculture." Any topic relating to aquaculture veterinary medicine is eligible for presentation such as biosecurity, education of aquatic veterinarians, diagnostics, research, nutrition, veterinary feed directives, fish health management, and trade. Aquaculture 2025 (the triennial meeting of Aquaculture America) will take place in New Orleans from March 6<sup>th</sup>-10<sup>th</sup>, 2025. More information about the meeting can be found here: [Aquaculture 2025 | World Aquaculture Society Meetings \(was.org\)](https://www.aquaculture2025.com). Talks can range from 15-60 min, in 15-minute increments. If interested, please submit a presentation title and approximate length of presentation to Dr. Pat Gaunt ([psgaunt@icloud.com](mailto:psgaunt@icloud.com)), Dr. Nicole Nietlisbach ([nicole.nietlisbach@wisconsin.gov](mailto:nicole.nietlisbach@wisconsin.gov)), and Dr. Grace Karreman ([gracek@karremanvet.ca](mailto:gracek@karremanvet.ca)) by Friday, September 27<sup>th</sup>. Following acceptance of your presentation, we will notify you of due dates for an abbreviated curriculum vita and abstract of the talk. The organizers will apply for RACE approval of the session for veterinary medicine licensing continuing education.

## 73<sup>rd</sup> Annual Northwest Fish Culture Concepts December 10 – 12, 2024 Seaside Civic and Convention Center - Seaside, Oregon



This is your invitation to attend the 73rd Annual Northwest Fish Culture Concepts (NWFC) event in Seaside, Oregon, December 10 – 12, 2024. The Oregon Department of Fish and Wildlife is pleased to be hosting this event at the Seaside Civic and Convention Center.

This event promises to be extremely educational and beneficial for everyone attending, presenting, and exhibiting fish culture products. Registration is now open; go to the following link to register online with secure credit card payment options:

<https://17958.ezfacility.com/login?SmuFormId=4E301E30-F0F4-4AB7-BB3A-C8122FE14981>

See attached .pdf for more information.



**American Board of  
Veterinary Practitioners**

# FISH PRACTICE SPECIALTY

**GET RECOGNIZED**  
For excellence and  
distinction in the art and  
science of fish medicine  
and surgery.

**DEADLINE JAN 15**

**VETERINARIANS WITH THE  
FOLLOWING CAN APPLY**

- **Work with pet fish,  
zebrafish, aquaculture,  
aquarium fish and more**
- **4.5-5 years experience**
- **15% or more total case load**

**LEARN MORE**



## **JOBS/GRADUATE ASSISTANTSHIPS**

### **Associate or Full Professor in Applied Organismal Biology & Aquaculture and Executive Director of the Western Regional Aquaculture Center**

**University of Washington**

Seattle, WA

Priority to applications received by October 25, 2024

The School of Aquatic and Fishery Sciences (SAFS) at the University of Washington seeks to fill a tenured position at the Associate or Professor level with specialization in applied organismal biology and aquaculture, with an administrative appointment as Executive Director of Western Regional Aquaculture Center (WRAC). WRAC is one of five regional aquaculture centers in the U.S. supported by the USDA's National Institute for Food and Agriculture (NIFA). The College has hosted WRAC since the inception of the national Regional Aquaculture Center program in 1986.

The successful applicant will devote 50% of their effort to serving as Executive Director of WRAC and 50% to duties as UW faculty. The primary duty of the Executive Director is to support WRAC's Board of Directors and committees in the processes associated with the selection and management of regional aquaculture research and outreach projects by investigators within the 12 western states (AK, AZ, CA, CO, ID, MT, NM, NV, OR, UT, WA, WY). The successful candidate will be expected to administer programs, including staff supervision and partnering with a diverse community of stakeholders. The director will be expected to work effectively with USDA staff and interact with relevant state agencies through both oral and written communication.

See attached .pdf for more details.

### **Aquatic Animal Health Researcher**

**IBSS Corp.**

Manchester, WA

Link:

<https://www1.jobdiva.com/portal/?a=4ajdnwk8evzh26uk94l694tiat35w109ccfhjqx10ho9ba3cabmpvmaigtq1odwq&compid=0#/jobs/28246264?jobtitle=Aquatic+Animal+Health+Researcher>

This is an open funded position, and it is a lab manager/bench researcher combination. This work is ongoing with disease challenge work in sablefish.

It's a great opportunity for the right person and has potential for federal conversion for someone looking to break into the federal space.

Within the NOAA NWFSC, the Environmental Fisheries and Sciences Division focuses on science to support recovery of ESA-listed salmon and steelhead stocks; development of sustainable marine aquaculture for both finfish and shellfish; monitoring and forecasting harmful algal blooms that impact marine mammals, fisheries, and fishing communities; monitoring environmental contaminants and understanding their impacts to protected resources and fisheries; and reform of salmon and steelhead hatcheries to support commercial harvest and species recovery.

The EFS Division conducts research in the areas of aquatic animal health and disease to assess the impact of diseases on both important cultured and wild species. These areas of research are

important to the Center's research programs with finfish and shellfish aquaculture and also assist in characterizing disease interactions between and among both wild and cultured species.

Disease of aquatic species can severely impact the health of both cultured and wild aquatic species at various life stages. Understanding disease dynamics requires knowledge of the epidemiological triad that consists of the host (fish/shellfish), the environment of the host and the disease-causing pathogen that the host may contact. Aquatic animal health management requires knowledge of host immunology, molecular and microbiology, and how the environment interacts with pathogens and hosts to influence disease outbreaks.

This position is ideal for a recent graduate or post doc to transition into the federal research space, Work is on-site, and not remote.

Contact Forest O'Neill to discuss this opportunity at [forest.oneill@ibssc.org](mailto:forest.oneill@ibssc.org).

### **Aquatic Health Veterinarian – Epidemiologist 3, 2 positions**

#### **Washington Department of Fish and Wildlife**

One position located in Spokane Valley, WA

One position located in Wenatchee, WA

Closes 9/30/24

Link: [https://www.governmentjobs.com/careers/washington/jobs/4589165/aquatic-health-veterinarian-epidemiologist-3-non-medical-permanent-2-posi?department\[0\]=Dept.%20of%20Fish%20and%20Wildlife&sort=PostingDate%7CDescending&page=jobOpportunitiesJobs](https://www.governmentjobs.com/careers/washington/jobs/4589165/aquatic-health-veterinarian-epidemiologist-3-non-medical-permanent-2-posi?department[0]=Dept.%20of%20Fish%20and%20Wildlife&sort=PostingDate%7CDescending&page=jobOpportunitiesJobs)

This position, reporting to the Supervisor of the Fish Health Unit in the Fish Program, is responsible for maintaining fish and public health as a licensed veterinarian. The role involves compiling, maintaining, planning, conducting, analyzing, interpreting, and reporting on issues related to fish health, including zoonotic and non-zoonotic pathogens, antibiotic resistance, and conducting epidemiological investigations at fish hatcheries and natural fish populations. It addresses risks associated with fish diseases, pathogen prevalence, immunological changes, environmental variables, and zoonotic impacts on human health.

### **Zebrafish Related Job Announcements**

<https://wiki.zfin.org/display/jobs/Zebrafish-Related+Job+Announcements>

## **RESOURCES/NEWS**

### **Aquatic Animal Drug Approval Partnership (AADAP) Updates are available by request:**

The AADAP Updates feature news on aquaculture drugs currently in the U.S. Food and Drug Administration (FDA) approval process, AADAP programmatic updates, and aquaculture drug use guidance information. If you would like to sign up to receive the AADAP Update, please email to be [paige\\_maskill@fws.gov](mailto:paige_maskill@fws.gov) added to our email listserv.



**73<sup>rd</sup> Annual Northwest Fish Culture Concepts  
December 10 – 12, 2024  
Seaside Civic and Convention Center - Seaside, Oregon**

**Dear Fish Culture Associates:**

This is your invitation to attend the 73rd Annual Northwest Fish Culture Concepts (NWFC) event in Seaside, Oregon, December 10 – 12, 2024. The Oregon Department of Fish and Wildlife is pleased to be hosting this event at the Seaside Civic and Convention Center.

This event promises to be extremely educational and beneficial for everyone attending, presenting, and exhibiting fish culture products. Registration is now open; go to the following link to register online with secure credit card payment options:

<https://17958.ezfacility.com/login?SmuFormId=4E301E30-F0F4-4AB7-BB3A-C8122FE14981>

**We strongly encourage registration and payment online but will also accept mail-in registrations; please contact us for mail-in registration details.**

We recommend early registration as strong attendance is expected. The fee for early registration is \$175.00. Registration and payment must be made (or postmarked) by Friday, November 1, 2024. After this date, registration fees increase to \$200.00. Fees include lunch on December 11.

Registration is also available for students and retirees at \$75.00 each. Guest registration for the Tuesday evening social only is \$50.00.

There are several options for Hotel Reservations below government rates. Please click on this link ([https://registrationfiles.ezfacility.com/20088\\_NWFC\\_Hotel\\_Links\\_FINAL.docx](https://registrationfiles.ezfacility.com/20088_NWFC_Hotel_Links_FINAL.docx)) to view the three hotels recommended.

**NWFC 2024 Vendor Registration Information:**

Vendors have a great opportunity to interact with attendees as all breaks and socials will be held in vendor display areas. The Seaside Civic and Convention Center has exceptional display space reserved for manufacturers and suppliers of fish culture related products and services. Exhibitors are encouraged to register and receive all the necessary information online at the event website.

Registration is open for vendors at this link:

<https://17958.ezfacility.com/login?SmuFormId=3099CC11-4414-4D69-98DB-D7F938EDD215>

**Hotel Registration:**

[https://registrationfiles.ezfacility.com/20088\\_NWFCC\\_Hotel\\_Links\\_FINAL.docx](https://registrationfiles.ezfacility.com/20088_NWFCC_Hotel_Links_FINAL.docx)

Additional questions about vendor registration:

Contact Dan Green at 541-374-8393 or [daniel.g.green@odfw.oregon.gov](mailto:daniel.g.green@odfw.oregon.gov).

**Overall questions about Registration or Special Requests:**

Please contact Shari Beals at:

503-947-6243 or [shari.r.beals@odfw.oregon.gov](mailto:shari.r.beals@odfw.oregon.gov)

Mail: ATTN: Shari Beals  
Oregon Department of Fish and Wildlife  
4034 Fairview Industrial Dr. SE  
Salem, OR 97302-1142

We look forward to seeing you at this exciting fish culture event! This year we are especially looking forward to presentations highlighting our 73rd Annual NWFCC theme: **Enhancing Northwest Fisheries**.

**NWFCC 2024 - FIRST CALL FOR PAPERS:**

Included in this letter of invitation is our **First Call for Papers** which describes paper submission procedures for either oral or poster presentations. Early submission of abstracts and papers is requested.

**Abstracts for Oral and Poster Presentations:**

Oral Presentations: Please submit to Brent Hinners [brent.a.hinners@odfw.oregon.gov](mailto:brent.a.hinners@odfw.oregon.gov)

If you have questions, you can call Brent at 971-673-6006.

You may also send to [shari.r.beals@odfw.oregon.gov](mailto:shari.r.beals@odfw.oregon.gov).

Poster Presentations: Please submit to Andrew Gibbs [andrew.j.gibbs@odfw.oregon.gov](mailto:andrew.j.gibbs@odfw.oregon.gov)

If you have questions, you can call Andrew at 541-786-3114.

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The deadline for submitting abstracts for the 73rd Annual NWFCC is **November 1, 2024**. Preference will be given to submissions that pertain to the NWFCC 2024 theme of "Enhancing NW Fisheries." However, all topics relevant to aquaculture in North America will be considered. Session topics will be determined based on the abstracts submitted.

The following are ideas for presentation or poster topics:

- Reintroduction programs
- Hatchery science
- Climate change and hatchery resilience
- Fish Health
- Hatchery gadgets (smarter not harder)

**Guidelines for submissions (please use MS Word):**

- 1) TITLE – **Bold title in Arial, 11 point font**, at top of abstract
- 2) PRESENTER – list authors and designate presenter by a \* , employer or affiliation, mailing address, city, state, zip, phone and email should be included, superscript numbers can be used for authors with alternate contact information
- 3) POSTER or ORAL – Please indicate presentation type before the abstract
- 4) ABSTRACT – (500 word limit) – Use Arial, 11 point font
- 5) TABLES – A table or figure can be included with the abstract, but the entire abstract (abstract plus table or figure) is restricted to one page total
- 6) SUBMISSIONS – Please submit **by November 1, 2024** to the following people:
  - Oral Presentations to [brent.a.hinners@odfw.oregon.gov](mailto:brent.a.hinners@odfw.oregon.gov) or [shari.r.beals@odfw.oregon.gov](mailto:shari.r.beals@odfw.oregon.gov)
  - Poster Presentations to [andrew.j.gibbs@odfw.oregon.gov](mailto:andrew.j.gibbs@odfw.oregon.gov).
- 7) EXAMPLE – Please see following page for an example abstract
- 8) PRESENTATIONS – All presentations must be in PowerPoint, 15 minutes for presentation and 5 minutes for questions
- 9) POSTERS – Posters need to fit in a 4'x4' space

**Example Abstract:**

**NWFCC 2021: Recruiting the Next Generation of Fish Culturists**

Marc Garst\* and Cassie Sundquist<sup>1</sup>

\* Idaho Department of Fish and Game, Headquarters, 600 S. Walnut, Boise, Idaho, 83712. 208-287-1234, [marc.garst@idfg.idaho.gov](mailto:marc.garst@idfg.idaho.gov)

<sup>1</sup> Idaho Department of Fish and Game, Fisheries Bureau, 3101 Powerline Road, Nampa, Idaho, 83686. 208-287-5678, [cassie.sundquist@idfg.idaho.gov](mailto:cassie.sundquist@idfg.idaho.gov)

**ORAL PRESENTATION**

Fish culture has a long and diverse history in the Pacific Northwest and will continue to play a major role in fisheries management, species preservation, food production, and economics, as well as social and political change in the future. The 71<sup>st</sup> Annual Northwest Fish Culture Concepts is the place to learn about progressive fish culture techniques and programs as well as gain a better understanding of our historical role in the region over the last 100+ years. Meeting participants will have the opportunity to attend presentations about advancements and observations in aquaculture.

Along with great presentations, attendees will be able to visit with vendors and exhibitors during breaks and socials to ensure great information and products are taken back to each operation. Through these multiple inputs of knowledge and equipment, participants will increase their relative understanding of aquaculture principles and procedures, which may contribute to attainment of desirable fish culture outcomes upon return to their home stations.

Associate or Full Professor in Applied Organismal Biology & Aquaculture and Executive Director of the Western Regional Aquaculture Center

The School of Aquatic and Fishery Sciences (SAFS) at the University of Washington seeks to fill a tenured position at the Associate or Professor level with specialization in applied organismal biology and aquaculture, with an administrative appointment as Executive Director of Western Regional Aquaculture Center (WRAC). WRAC is one of five regional aquaculture centers in the U.S. supported by the USDA's National Institute for Food and Agriculture (NIFA). The College has hosted WRAC since the inception of the national Regional Aquaculture Center program in 1986.

The successful applicant will devote 50% of their effort to serving as Executive Director of WRAC and 50% to duties as UW faculty. The primary duty of the Executive Director is to support WRAC's Board of Directors and committees in the processes associated with the selection and management of regional aquaculture research and outreach projects by investigators within the 12 western states (AK, AZ, CA, CO, ID, MT, NM, NV, OR, UT, WA, WY). The successful candidate will be expected to administer programs, including staff supervision and partnering with a diverse community of stakeholders. The director will be expected to work effectively with USDA staff and interact with relevant state agencies through both oral and written communication.

The successful applicant is expected to establish a collaborative, externally funded and nationally recognized research program in applied organismal biology and other fields with and applications to aquaculture that align with both WRAC and the School's priorities in research and teaching. Research areas that align with both WRAC and SAFS include: shellfish and fish diseases, impacts and mitigation of harmful algal blooms, applied aquatic animal physiology, applied genetics and genomics, climate resilience, invasive species and environmental sustainability of aquaculture practices. In addition, the successful applicant will contribute to the teaching mission of the school through innovative classroom teaching and effective mentorship of undergraduate/graduate students and postdocs.

Our School strives to create an inclusive and welcoming environment where people of all backgrounds, who bring a range of perspectives and life experiences, are welcomed, heard, and supported. "The successful candidate will be expected to contribute to these efforts. We seek applications from underrepresented groups." In all aspects of this position, the candidate will join us to promote a diverse, inclusive, and equitable environment for students, faculty, staff, and the public.

The successful applicant will be appointed as a tenured professor in the School. All University of Washington faculty engage in teaching, research/scholarship, and service. The Associate Professor / Professor appointment is a tenured, nine-month, full-time (100% FTE) indefinite position. The WRAC Executive Director appointment is renewable at the discretion of the Dean of the College of the Environment and the WRAC Board of Directors. The anticipated start date is September 16, 2025. All University of Washington faculty engage in teaching, research/scholarship and service.

#### Compensation

The base salary range for this position will be \$9,500-\$22,000 per month, commensurate with experience and qualifications, or as mandated by a U.S. Department of Labor prevailing wage determination. Other compensation associated with this position may include a moving allowance, a relocation incentive, and/or commitment of summer salary. Two months of summer salary are provided annually while serving as WRAC Executive Director.

#### Qualifications

The successful candidate will have a Ph.D. (or foreign equivalent) in a relevant field, a track record of research and scholarship in applied organismal biology and aquaculture in at least one of the following areas that align with both WRAC and SAFS: shellfish and fish diseases, impacts and mitigation of

harmful algal blooms, applied aquatic animal physiology, applied genetics and genomics, climate resilience, invasive species and environmental sustainability of aquaculture practices. They must also show evidence of teaching effectiveness and/or potential for high-quality teaching and mentoring.

### **Application Instructions**

Candidates should submit the following information via interfolio (<http://apply.interfolio.com/154407>)

1. Cover Letter
2. Curriculum vitae
3. Research statement (2 pages). Please summarize your past research, your overall approach to conducting research, how you envision your research program at SAFS, and how this aligns with the job description.
4. WRAC leadership statement (2 pages). Please summarize your past leadership experience, specifically indicating qualifications and experience that you would bring to managing the WRAC program, and describe what you see as the primary challenges facing the aquaculture industry and research community and opportunities for WRAC to address them
5. Teaching Statement (2 pages). Please describe your past teaching experiences, teaching pedagogy, evidence of teaching effectiveness, and how your teaching will complement and diversify the School's undergraduate and graduate curriculum.
6. Diversity, Equity, Inclusion and Justice Statement (1 page). Please describe your goals and values with regards to diversity, equity, inclusion, and justice (DEIJ), how your past and present work has contributed to a culture of DEIJ, and how you will contribute to SAFS's ongoing efforts to become an equitable, inclusive, and welcoming academic and professional environment
7. Copies (PDF) of three representative publications
8. Names and contact information for three professional references

Priority will be given to applications received by October 25, 2024, and consideration of applicants will continue until the position is filled. Questions pertaining to this search can be addressed to Prof. Jackie Padilla-Gamiño, Search Committee Chair ([jpgamino@uw.edu](mailto:jpgamino@uw.edu)). Questions regarding disability accommodations during the application process should be directed to Manish Kala at [manishk@uw.edu](mailto:manishk@uw.edu) or 206-616-5893.

### **Equal Employment Opportunity Statement**

University of Washington is an affirmative action and equal opportunity employer. All qualified applicants will receive consideration for employment without regard to race, color, creed, religion, national origin, sex, sexual orientation, marital status, pregnancy, genetic information, gender identity or expression, age, disability, or protected veteran status.

### **Benefits Information**

A summary of benefits associated with this title/rank can be found at <https://hr.uw.edu/benefits/benefits-orientation/benefit-summary-pdfs/>. Appointees solely employed and paid directly by a non-UW entity are not UW employees and are not eligible for UW or Washington State employee benefits.

Commitment to Diversity

The University of Washington is committed to building diversity among its faculty, librarian, staff, and student communities, and articulates that commitment in the UW Diversity Blueprint (<http://www.washington.edu/diversity/diversity-blueprint/>). Additionally, the University's Faculty Code recognizes faculty efforts in research, teaching and/or service that address diversity and equal opportunity as important contributions to a faculty member's academic profile and responsibilities (<https://www.washington.edu/admin/rules/policies/FCG/FCCH24.html#2432>).

### **Privacy Notice**

Review the University of Washington [Privacy Notice for Demographic Data of Job Applicants and University Personnel](#) to learn how your demographic data are protected, when the data may be used, and your rights.

**Disability Services**

To request disability accommodation in the application process, contact the Disability Services Office at 206-543-6450 or [dso@uw.edu](mailto:dso@uw.edu).