



Fish Health Section



FHS NEWS

REMINDER!! - Please bookmark the new FHS website! We still have not been able to take down the old FHS website which is outdated and inaccurate.

The official link to the FHS website is: <https://units.fisheries.org/fhs/>

AFS Fish Health Section Facebook Site

The FHS now has a Facebook Page (<https://facebook.com/FishHealthSectionAFS>). Please 'Like' and follow us! Social media is expanding in the scientific arena, and we hope to expand our use for promoting meetings, sharing information, etc. If you have any questions, please feel free to contact Ben LaFrentz (benjamin.lafrentz@usda.gov).

FHS Elections

The following candidates are running to serve as your AFS FHS officers.

Vice President:

Anita Kelly
Brandon Taro

Professional Standards Committee:

Anna Forest
Joe Marcino
Megan Shavalier

Policy/Position Development Committee:

David Gauthier
Jesse Trushenski

Technical Standards Committee:

Stephen Reichley
Nilima Renukdas

Nominating and Balloting Committee:

Tim Bruce
Attila Karsi
Nick Phelps
Mark Polinski
Isaac Standish

Each office has one opening for each position or committee. There will be a special email providing instructions for a link to the candidate's biosketch and casting your ballot in this year's 2020 elections beginning in May. Please consider voting for one of these well-qualified candidates.

FHS QA/QC Applications

The application period for the FHS Quality Assurance program for aquatic animal laboratories has opened for the calendar year 2020.

The application period for Tier 1 (prequalification) will be open until May 31, and Tier 2 (Recognition) will be open until June 30.

Currently twelve laboratories have completed the requirements for Tier 1 and the first application for Tier 2 is underway.

Additional details and support documents can be found on the Fish Health Section [website](#), or you can contact QA Committee chair Chris Wilson at 435-757-7493 or at <mailto:wetvet53@gmail.com>.

MEETINGS, WORKSHOPS AND COURSES

Grad Student and Post-doc Virtual Presentation Opportunity

Hello FHS members and friends!

With the cancellation of the EFHW, AFS-FHS, WFDW, and other conferences, we thought it would be a good idea to say "hi!" and share our research highlights remotely over the next couple of months. This is especially important for grad students and post-docs who don't have many chances to network, even under normal circumstances. This should be seen as a low-stakes opportunity to introduce yourself and your work to a good mix of lab groups around the country... think of it as a cross between a lab meeting and conference. So far, there has been interest from the PIs listed below, and others may join too.

[Griffin Lab](#) (Mississippi State University)
[Loch Lab](#) (Michigan State University)
[Waltzek Lab](#) (University of Florida)
[Soto Lab](#) (University of California - Davis)

[Phelps Lab](#) (University of Minnesota)

If you are a grad student or post-doc and are interested in presenting, sign up below!! We highly encourage others such as faculty or other senior researchers to join as audience members and those interested can also sign up below! Presentations will be provided via Zoom - I'll set up the 'room' and presenters can share their screen. They will be held on Fridays at noon (central time) with two 30 min time slots from mid-May-June.

Everyone, please go [here](#) to sign up. You will notice two tabs...

Presenters (first tab): If you want to present, pick a timeslot and enter your info.

Everyone (second tab): If you want to receive a weekly reminder email from me, please enter your contact info.

If you have any questions, please do not hesitate to reach out.

Have a good day,
Nick Phelps
phelp083@umn.edu

Fish Welfare Symposium

The Fish Health Section will be co-organizing a symposium, entitled “[Fish Welfare](#) (ID number: 9479)”, with the Fish Culture Section at the American Fisheries Society 150th Anniversary Meeting in Columbus, Ohio August 29 - September 03, 2020.

Fish Welfare

Fish welfare is an aspect of fish husbandry that is often overlooked. Fish can sense and react to noxious stimuli, often displaying similar aversive responses to the ones we observe in mammals, including stress. Chronic and acute stress can cause anorexia, weaken the immune system, and induce other physiological abnormalities. Stressed fish may display abnormal behaviors or show abnormal swimming patterns. In the aquaculture of food fishes, pre-slaughter stress can cause changes in the texture and quality of fish fillets. In the ornamental fish industry and for fishes cultured and/or transported for stocking, shipping stress may be an important cause of mortality. Thus, fish welfare is not only a matter of ethical debates but a relevant issue for anyone that works with fish from fishermen and fish growers to researchers using fish as animal models. This symposium will aim to explore a variety of aspects of fish welfare, including: how welfare can be assessed, the use of naturally derived compounds to reduce shipping and handling stress, and the effects of fish welfare in the overall health of fish.

Organizers:

Jose Reyes-Tomassini (<mailto:jreyes-tomassini@francis.edu>), Jeff Heindel, Michelle L. “Mick” Walsh and Benjamin R. LaFrentz

Please consider yourself cordially invited to submit an abstract to participate in our organized symposia. The deadline for abstract submission: Friday, March 20, 2020. Please reach out to the symposium organizers via email if you have any questions or to confirm that you plan to be a part of the session. In addition, please reach out if you have any suggestions on folks we should reach out to who you think would be great additions to the above symposia – particularly those speakers based in Ohio.

The Fish Culture Section is also organizing two other symposia listed below that may be of interest:

- 9380 - *Getting It Right: A Guide To Successful Supplementation For Recreation, Restoration, and Recovery*
- 9391 - *Marking, Tagging, and Tracking* (with the Fisheries Management, Marine Fisheries, and FITS Fisheries Information & Technology Section/American Fisheries Society sections as well as the AIFRB - American Institute of Fishery Research Biologists)

All symposia for the conference can be viewed here:

<https://afs.confex.com/afs/2020/webprogrampreliminary/SYMP.html?fbclid=IwAR30YFqABXMRn5x1uKJoj8xQvmyyOylEqMgAbkGdv9-N2exS-u-vbpOiUQ>

Ben LaFrentz (benjamin.lafrentz@usda.gov)

CALL FOR PROPOSALS TO HOST THE 9th INTERNATIONAL SYMPOSIUM ON AQUATIC ANIMAL HEALTH SEPTEMBER 4 - 8, 2022

The American Fisheries Society's Fish Health Section is soliciting proposals to host the 9th International Symposium on Aquatic Animal Health (ISAAH-9), September 4 - 8, 2022. This stimulating gathering of international aquatic animal health professionals occurs every four years, most recently in Charlottetown, Prince Edward Island (Canada) with over 500 attendees representing 34 countries. Past participating professional societies have included the American Association of Fish Veterinarians, the World Aquatic Veterinary Medical Association, the European Association of Fish Pathologists, the Japanese Society of Fish Pathology, and the International Association for Aquatic Animal Medicine, and sponsors have encompassed industry supporters, academic institutions, and government agencies.

Organizations and individuals interested in submitting a bid to host ISAAH-9 are welcome to contact Gary Marty at <mailto:Gary.Marty@gov.bc.ca> before June 1, 2020. For more details, please see attached announcement.

**Health and Colony Management of Laboratory Fish
August 9-14, 2020
MDI Biological Laboratory
Bar Harbor, Maine**

Link: <https://mdibl.org/course/health-and-colony-management-of-laboratory-fish-2020/>

This is a short course for veterinarians, technicians, trainees, principal investigators, and core managers who utilize or plan to utilize fish models in laboratory research. The course is directed by Michael Kent, Ph.D., College of Veterinary Medicine, Oregon State University. Course faculty include: Rodman G. Getchell, Ph.D., Cornell College of Veterinary Medicine; Christian Lawrence, M.S., Children's Hospital Boston; and Jan Spitsbergen, DVM, Ph.D., DACVP, Department of Microbiology, Oregon State University.

The course is offered at the MDI Biological Laboratory, located in Bar Harbor, Maine on Mount Desert Island, the home of Acadia National Park. It is intended to help laboratory technicians, researchers, and veterinarians monitor and maintain the health of a colony of aquatic organisms, focusing on zebrafish. This course is appropriate for veterinarians and veterinary trainees, as well as technical staff, students, postdocs, and investigators.

The course consists of lectures, laboratory exercises with a high faculty to student ratio, and discussion. During the course, there are ample opportunities for students to discuss unusual and/or unsolved diagnostic case experiences from their home laboratories as problem-solving exercises.

This course is now approved by the AAVSB RACE (American Association of Veterinary State Boards Registry of Approved Continuing Education) to offer a total of *33 CE* (Continuing Education) Credits to veterinarians and veterinary technicians. RACE approval is for the subject matter categories of both category 1 (Scientific) and 3 (Non-Scientific-Practice Management/Professional Development).

For more information, visit the MDI Biological Laboratory course page <https://mdibl.org/education/courses/> or email the Education Office at education@mdibl.org.

JOBS/GRADUATE ASSISTANTSHIPS

Senior Scientist – 2 positions
Ministry for Primary Industries
Wellington – Upper Hutt, NZ

Closes May 3, 2020

Link: <https://careers.mpi.govt.nz/jobs/MPI20-1457345>

We are looking for two Senior Scientists with expertise in bacteriology, molecular biology and/or pathology, who are passionate about protecting New Zealand's primary industries in addition its native animals. These positions are based in the Bacteriology and Aquatic Animal Diseases team within New Zealand's National Animal Health Laboratory.

The terrestrial senior scientist role will have a focus on routine bacteriology testing and oversee testing of samples from production, companion and native animal's in addition to investigations of exotic and emerging diseases. This role will provide high quality scientific advice on biosecurity diagnostics and readiness, investigation and response for terrestrial animal diseases.

The aquatic senior scientist role will have a focus on routine aquatic animal diseases with day to day testing in addition to supporting investigations of exotic and emerging diseases in aquatic animals. This role will provide high quality scientific advice on biosecurity diagnostics and readiness, investigation and response for aquatic animal diseases.

In both roles you will provide professional diagnostic, intellectual and technical advisory services for exotic and endemic diseases for the purposes of health certification, surveillance, investigation and response, as well as trade facilitation. The MPI works closely with industries to maximise opportunities for export, improve sector productivity and sustainability of resources and to protect from biological risks. You will be an integral part of the team, contributing to the development, validation and conduct of diagnostic tests for a wide range of animal diseases. Implementing new technologies, training and mentoring laboratory staff, participating in biosecurity investigations & collaborating with scientists both nationally and internationally.

Aquatic Science Biologist
Fisheries and Oceans Canada – Aquatic Health Division
Moncton, New Brunswick

Closes May 7, 2020

Link: <https://emploisfp-psjobs.cfp-psc.gc.ca/psrs-srfp/applicant/page1800?toggleLanguage=en&poster=1440389>

The intent of this process is to staff temporary and/or permanent positions in the Aquatic Health Science division or other similar positions in the Department of Fisheries and Oceans in Moncton, NB.

Graduation with a degree from a recognized post-secondary institution in Natural, Medical, or Animal Sciences with a specialization in a field relevant to the duties of the position such as Biotechnology, Environment, Biological Sciences, Microbiology, or Aquaculture.

- Experience in developing, and maintaining electronic databases or spreadsheets
- Experience in leading projects
- Significant experience working in a laboratory with a Quality management system e.g. ISO17025 or equivalent

- Experience in writing scientific reports (e.g. published scientific papers, diagnostic data reports, scientific/technical procedures etc.)
- Experience in analysis of biological samples using molecular biological assays (i.e., PCR, qPCR, DNA sequencing)

Postgraduate Research Opportunity in Aquatic Animal Diseases

Oak Ridge Institute for Science and Education

Ames, IA

Link: <https://www.zintellect.com/Opportunity/Details/USDA-APHIS-2020-0102>

The U.S. Department of Agriculture's (USDA) National Veterinary Services Laboratories (NVSL) serves as the Animal and Plant Health Inspection Service (APHIS), VS national veterinary diagnostic reference and confirmatory laboratory for aquatic animal program pathogens, World Organization for Animal Health (OIE) listed diseases, as well as assisting in the identification of emerging unknown etiologic agents causing significant disease problems. This opportunity will focus on next generation sequencing (NGS) and analysis methods for the identification and characterization of OIE listed aquatic pathogens. One overarching objective will be to develop whole genome data sets for OIE listed aquatic animal pathogens that can be used to evaluate and support trace investigations necessary in the event of detection of a high consequence animal pathogen in order to protect domestic and wild aquatic animals and trade opportunities.

The selected participant will have the opportunity to conduct research in a high performance diagnostic laboratory alongside biologists and microbiologists focusing on next generation sequencing (NGS), data pipeline, and analysis methods for the identification and characterization of OIE listed aquatic pathogens, as well as molecular diagnostics where feasible. The participant will collaborate with international subject matter experts (i.e. European Reference Laboratory crustacean and OIE pathogen specific reference laboratories) on aquatic animal diseases important to live animal and commodity trade and will be involved in efforts to obtain specimens for characterization. It is expected that the participant will engage in collaborations with on-site computational biologists and develop collaborations with experts at various national and international research facilities.

Aquaculture Scientist – Genetics and Data Analysis

Cawthron

Nelson – Glenhaven, NZ

Closes June 7, 2020

Link: <https://cawthron.careercentre.net.nz/job/aquaculture-scientist-genetics-and-data-analysis-/nelson-glenhaven/6317>

Cawthron's aquaculture research is transforming the way New Zealand farms seafood.

We work closely with the aquaculture industry, combining a practical multidisciplinary approach with science excellence to realise aquaculture's potential. We lead research in a range of areas including selective breeding of multiple species, shellfish hatchery production, shellfish and finfish physiology, algae production, aquatic health and new species development.

We are seeking an experienced researcher to grow our genetics and breeding team, with the skills and initiative to integrate modern and traditional breeding methods. Suitable candidates will have PhD level expertise in quantitative genetics and/or data analysis. Previous experience in applying genomics tools is also highly desirable. The ideal candidate will have at least 3 years' experience in genetic improvement related research and/or industry breeding programmes. Experience in aquaculture is an advantage but not essential. Remuneration will reflect skills and experience offered.

Fish Health Manager

Mowi Chile – Fish Health and Nutrition Management

Puerto Montt, South Chile

Link: [https://candidate.hr-](https://candidate.hr-manager.net/ApplicationInit.aspx?cid=221&ProjectId=191373&DepartmentId=21727&MediaId=5)

[manager.net/ApplicationInit.aspx?cid=221&ProjectId=191373&DepartmentId=21727&MediaId=5](https://candidate.hr-manager.net/ApplicationInit.aspx?cid=221&ProjectId=191373&DepartmentId=21727&MediaId=5)

Main responsibility:

Direct and coordinate activities and implement the guidelines of the health department in the company according to Strategic Health Management (GSE), promoting continuous improvement in Biosecurity and animal welfare issues, to ensure compliance with survival rates according to standards of quality, costs and production volumes budgeted by the company, also participating directly in projects to better face future fish health challenges.

Competencies Required:

Knowledge: Fish pathology, with special emphasis on salmonid farming diseases, epidemiology; knowledge in freshwater and seawater production; knowledge of local legislation and destination markets; cost and budget management. Computer skills, fluent English.

Studies: Certified Veterinary Medicine (DVM)

Experience: at least 10 years in fish pathology (field and theory), and in companies in the field. Experience in similar positions at least 5 years leading work teams.

Desirable experience in global Fish Health networks.

Phibro Aqua Sales Agent

Phibro Animal Health Corporation

Territory: Alabama, Mississippi, and Arkansas – Catfish Sector

See attached pdf for application information

The Phibro Aqua sales agent will act as a commercial representative of PAHC in Alabama, Mississippi, and Arkansas. The primary product focus will be Terramycin® 200 for Fish, but other products in Phibro's portfolio will be available if opportunity arises.

The sales agent will develop the sales of Phibro products in Alabama, Mississippi, and Arkansas, traveling as necessary to interface with farmers, veterinarians, feed mills and other personnel to develop the business on behalf of PAHC. In addition, this candidate will maintain a list of contacts and customers, provide call reports of activities, and help develop regional strategies and future product innovation as needed.

PhD Scholarship

**National Institute of Aquatic Resources, Technical University of Denmark
Kgs. Lyngby, Denmark**

Closes June 1, 2020

Link: <http://www.phd-positions.dk/?p=199642>

The National Institute of Aquatic Resources (DTU Aqua) at the Technical University of Denmark (DTU) invites applications for a 3-year PhD position in the project "Prevalence and consequences of hydrogen sulphide in land-based Atlantic salmon Production (H2Salar)", supported by the Norwegian Research Council. The successful candidate will be employed in the Section for Aquaculture located in Hirtshals in the Northern part of Denmark. Here, we research farming technology, water quality, environmental footprint, as well as the nutrition, welfare and physiology of fish.

Research within farming technology covers recirculation systems, biofiltration, water quality issues, waste treatment and reduced environmental impact. We aim at contributing to the continued development of rearing systems and methods that ensure cost-efficient production with minimum environmental impact. The research focus is on recirculation, biofilter kinetics, water quality, waste treatment and environmental efficiency in both freshwater and saltwater systems. Research within fish feed bridges water quality and fish nutrition. We study amino acid and protein requirements, digestion, and utilization, including the effects of transitioning to plant-based raw materials. Research in metabolism and stress physiology in fish involves nutrition, water quality and general husbandry conditions.

Aquaculture production of Atlantic salmon is increasingly relying on recirculating aquaculture systems (RAS), either for smolt production or for on growing. Operating RAS under saline conditions carries an increased risk of the formation of hydrogen sulphide. Hydrogen sulphide is toxic at very low concentrations and can result in incidents of mass mortality. Some degree of hydrogen sulphide formation is expected to occur continuously, with the end concentration depending on the formation, as well as the oxidation, rates. The project aims to improve our knowledge of occurring H₂S levels and kinetics in saline RAS for Atlantic salmon

and to determine lethal and sub-lethal threshold concentrations. Assessing a combination of physiological and behavioural indicators during acute and chronic exposure should ultimately allow for an assessment of what can be considered safe concentrations and how this may affect the bioenergetics, growth performance and welfare of exposed fish.

M. S. Extension Associate (Fish Health) – 2 positions

**University of Arkansas at Pine Bluff, Dept. of Aquaculture and Fisheries
Lonoke, Arkansas**

Open until filled

The Aquaculture/Fisheries Center at the University of Arkansas at Pine Bluff (UAPB) has an opening for an Extension Associate (Fish Health) in the UAPB Fish Health Certification Laboratory in Lonoke, Arkansas. The aquaculture industry in Arkansas is the second largest in the United States and is one of the most diverse. Commercial fish farms in Arkansas raise catfish, baitfish, goldfish, sportfish fingerlings, hybrid striped bass, largemouth bass raised as food fish, and fish sold as bio-control agents.

The Extension Research Associate works under the supervision of the Director of the Fish Health Inspection Laboratory. Job duties include: Provide vital laboratory support for inspections following APHIS approved protocols and field support for research and analyze the data and report writing. Schedules inspections for certification, maintains laboratory inventory, supplies and operations. Perform the appropriate diagnostic tests, documentation of results, maintain cell cultures, conduct PCR analyses and maintain associated equipment. Maintain case records for inspection/ diagnostic and water quality cases received in the lab. Preference will be given to applicants who have worked in an APHIS approved laboratory.

See attached pdf for more details and application instructions.

Zebrafish Related Job Announcements

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

RESOURCES/NEWS

AFS Book(s) on Aquatic Animal Health – Solicitation from Parent Society

We would like to offer your Section the opportunity to help steer the development of new books in your field. At the February 2020 mid-year Governing Board meeting in Little Rock, a report from the AFS Special Committee on Books was presented. One of the recommendations of the Special Committee was to request each AFS section to engage in an assessment of book subject needs and opportunities, including identification of possible authors/organizers. This recommendation was put forward as a proposed motion, and was passed by the Governing Board.

Please suggest possible topics to be considered as future AFS books, along with names of possible authors. Topics should be limited to the disciplines represented by your Section. Suggestions for future book subjects and authors can be submitted at: <https://fisheries.org/section-book-ideas/> (password is: books).

Deadline for submitting suggestions is September 16, 2020.

Thanks for your help!

Scott Bonar
President

Aaron Lerner
Director of Publications

Doug Austen
Executive Director

Stacy A Strickland

From: US Fish and Wildlife Service Fisheries <USFWSFisheries@public.govdelivery.com>
Sent: Friday, April 17, 2020 6:01 PM
To: stacy.a.strickland@state.or.us
Subject: April 2020 AADAP Update



U.S. Fish & Wildlife Service

Aquatic Animal Drug Approval Partnership, AADAP Update
A Branch of the Fish and Aquatic Conservation Program



The AADAP Update provides recent news and updates from the Aquatic Animal Drug Approval Partnership program and its partners. For questions or to offer feedback, email [Julie Schroeter](mailto:Julie.Schroeter). For more about the AADAP Program, please [visit our web page](#). (Photo/NPS)

April 2020

Well Wishes During this Difficult Time

We hope everyone stays safe and healthy during the COVID-19 pandemic! The entire AADAP staff is currently teleworking, so if you need to contact us, it's best to reach out via email. Thank you!

2020 Aquaculture Drug Approval Coordination Workshop:

Due to the developing COVID-19 pandemic, the planning of the 2020 Aquaculture Drug Approval Coordination Workshop has been put on hold. As the situation develops, we'll make an announcement via the AADAP Update and [AADAP website](#) about whether the Workshop will be held in 2020 or postponed until 2021. Thank you for your patience as we wait to see how this situation develops!

INAD Program Tidbit of the Month:

Friendly reminder: when INAD data is due, Drug Receipt forms need to be submitted within 10 days of receipt of INAD. Study requests need to be submitted and advanced to stage 4 prior to the start of any treatment. All INAD study reports are due no later than 30 days after the last treatment. If you have any questions, please contact [Paige Maskill](#).

Approved Aquaculture Drug Fact of the Month:

Did you know Chloramine-T is approved for use in certain fish species for a handful of diseases? It is labeled for the control of mortality due to bacterial gill disease in freshwater-reared salmonids, as well as external columnaris in walleye and freshwater-reared warmwater finfish. Please check AADAP's [Resources Page](#) for recent drug approval updates. For more information on dosing and limitations, please see AADAP's [Quick Desk Reference Guide to Approved Drugs for Use in Aquaculture](#).

The U.S. Fish and Wildlife Service is committed to providing access for everyone. If you need alternative formats or services because of a disability or have any questions concerning a reasonable accommodation, please contact Julie Schroeter at (406) 994-9910 or julie_schroeter@fws.gov.

[Fish and Aquatic Conservation](#)
Contact us: fisheries@fws.gov



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Stacy A Strickland

From: US Fish and Wildlife Service Fisheries <USFWSFisheries@public.govdelivery.com>
Sent: Friday, April 24, 2020 6:01 PM
To: stacy.a.strickland@state.or.us
Subject: POSTPONED: 2020 Aquaculture Drug Approval Coordination Workshop



U.S. Fish & Wildlife Service

Aquatic Animal Drug Approval Partnership, AADAP Update
A Branch of the Fish and Aquatic Conservation Program



The AADAP Update provides recent news and updates from the Aquatic Animal Drug Approval Partnership program and its partners. For questions or to offer feedback, email [Julie Schroeter](mailto:Julie.Schroeter). For more about the AADAP Program, please [visit our web page](#). (Photo/NPS)

April 2020

2020 Aquaculture Drug Approval Coordination Workshop:

Due to the developing COVID-19 pandemic, the in-person portion of this year's Aquaculture Drug Approval Coordination Workshop has been postponed until the week of July 26th, 2021. Some

portions of this year's meeting will be held virtually, and as the agenda develops, we'll make an announcement via the AADAP Update and [AADAP website](#). Thank you for your patience and understanding during this difficult time!

The U.S. Fish and Wildlife Service is committed to providing access for everyone. If you need alternative formats or services because of a disability or have any questions concerning a reasonable accommodation, please contact Julie Schroeter at (406) 994-9910 or julie_schroeter@fws.gov.

[Fish and Aquatic Conservation](#)
Contact us: fisheries@fws.gov



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Phibro Aqua Sales Agent

Territory: Alabama, Mississippi, and Arkansas

Primary Sector: Catfish

Phibro Animal Health Corporation (PAHC) is looking for an independent, driven, and experienced candidate to represent the Aqua business in the U.S. Southeast. While primarily focused on driving sales of Phibro Aqua products in the region, the ideal candidate would also gather information about the territory to communicate to management, set future strategy, and inspire future innovation.

JOB DESCRIPTION

The Phibro Aqua sales agent will act as a commercial representative of PAHC in Alabama, Mississippi, and Arkansas. The primary product focus will be Terramycin® 200 for Fish, but other products in Phibro's portfolio will be available if opportunity arises.

The sales agent will develop the sales of Phibro products in Alabama, Mississippi, and Arkansas, traveling as necessary to interface with farmers, veterinarians, feed mills and other personnel to develop the business on behalf of PAHC.

In addition, this candidate will maintain a list of contacts and customers, provide call reports of activities, and help develop regional strategies and future product innovation as needed.

QUALIFICATIONS

The ideal candidate for this position would be:

- Comfortable with and accustomed to working independently, able to see and act on opportunities, organize business-building initiatives, and deliver value to customers
- Based in the target territory, and willing and able to travel within the region regularly
- Experienced in the catfish sector, with detailed knowledge of the industry and its players a core aspect of the position

Experience in a sales function is preferred but not required.

COMMISSION AND EXPENSES

This position is an independent contractor position and pays a set daily allowance. In addition to the daily rate, a volume-based commission will also be awarded for all new business developed in the region.

PAHC will reimburse for all reasonable documented travel expenses incurred in connection with sales activity.

Interested parties should contact Mark Pierson at Mark.Pierson@pahc.com or +1 857-212-9631.

HEALTHY ANIMALS. HEALTHY FOOD. HEALTHY WORLD.®

University of Arkansas at Pine Bluff

Department of Aquaculture and Fisheries

M.S. Extension Associate -Fish Health (2 positions) – Lonoke, Arkansas

Description

The Aquaculture/Fisheries Center at the University of Arkansas at Pine Bluff (UAPB) has an opening for an Extension Associate (Fish Health) in the UAPB Fish Health Certification Laboratory in Lonoke, Arkansas. The aquaculture industry in Arkansas is the second largest in the United States and is one of the most diverse. Commercial fish farms in Arkansas raise catfish, baitfish, goldfish, sportfish fingerlings, hybrid striped bass, largemouth bass raised as food fish, and fish sold as bio-control agents.

Duties and Responsibilities: The Extension Research Associate works under the supervision of the Director of the Fish Health Inspection Laboratory. Job duties include: Provide vital laboratory support for inspections following APHIS approved protocols and field support for research and analyze the data and report writing. Schedules inspections for certification, maintains laboratory inventory, supplies and operations. Perform the appropriate diagnostic tests, documentation of results, maintain cell cultures, conduct PCR analyses and maintain associated equipment. Maintain case records for inspection/diagnostic and water quality cases received in the lab. Preference will be given to applicants who have worked in an APHIS approved laboratory.

Qualifications

M.S. in biotechnology, microbiology, fish health, or a similar field. Two years of experience in a laboratory associated with cell culture and molecular biology and field work is preferred. Must have superior organizational skills with attention to detail, the ability to perform multiple tasks simultaneously and accurately, and be able to adjust rapidly to shifting priorities and variable workloads. Must have a track record of reliability and be able to work independently in a clean room environment using good aseptic technique. Applicant must be willing and able to work a flexible work schedule to meet laboratory demands including evenings and some weekends. Ability to work independently and as part of a team. Good oral and written communication skills are a must. Applicant must possess AFS-FHS certification as an Aquatic Animal Health Inspector, or obtain certification as soon as possible (within 18 months of hire). For details visit: <https://units.fisheries.org/fhs/certification/aquatic-animal-health-inspector/>

Salary/Fringe benefits: Commensurate with qualifications and experience. Group health, life and disability insurance; retirement; social security; workers compensation, paid holidays, vacation and sick leave, tuition discounts for employee, spouse and dependent children.

To Apply: A letter of application, resume, official transcripts, and 3 letters of reference should be sent to: Search Committee for Extension Research Associate (Fish Health - Lonoke)

c/o Human Resources Department University of Arkansas at Pine Bluff 1200 N.
University Drive Mail Slot 4942 Pine Bluff, AR 71601
E-mail: uapbjobs@uapb.edu; renukdasn@uapb.edu

Contact Person

Dr. Nilima Renukdas, renukdasn@uapb.edu

Review of application will begin immediately and will remain open until suitable candidate is found.
