

ACVR Diagnostic Imaging Residency Training Program Application

This application is required for institutions desiring ACVR accreditation of a new residency training program and for institutions requesting re-accreditation of an existing program.

Before beginning the application process, all applicants should review the most recent version of the [ACVR Residency Program Essential Training Standards and Requirements](#) (RPE) document (accessed from the Essentials Homepage) in detail. Use the RPE as a reference when completing the application form, as the contents you provide herein will be evaluated by the Residency Standards and Evaluation Committee (RSEC) against the published RPE standards. This application form follows the headings of the RPE. All terms used in this application have same definitions as those in the RPE, and no information provided in the application form itself will supersede that published in the RPE.

During the application review process, the Chair or Assistant Chair of the RSEC may contact the applicant for additional information or clarification.

**Note: If you wish to save your submission and complete it later, click the save button located at the bottom of the pages. You will be emailed a link to complete your form at a later date.*

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Program Summary

The Residency Director of the program is expected to be the primary applicant and contact person for this application. The Residency Director must be located at the primary training institution.

Institution Name	VitalRads Veterinary Radiology Consultants
Residency Program Director Name	Brian Poteet
Residency Program Director Email	brian.poteet@vitalrads.com

Program Type

What type of residency program is being requested?	Traditional Residency Program
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If approved, what is the proposed start date of this residency program?	Friday, March 1, 2024
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Objectives

Succinctly state the objectives of the training program.

The objective of the VitalRads Radiology Residency program is to train specialists in veterinary diagnostic imaging and to adequately prepare them to be successful on passing the board examination in the American College of Veterinary Radiology. These goals will be achieved through close work with our radiologists, daily group rounds, literature reviews, guidance in board preparation, mock written exams, known case conference and a high

caseload. We are affiliated with Iowa State University, which will provide additional focused opportunities for hands on training in CT and MR acquisitions and additional ultrasound training opportunities, in addition to our outpatient ultrasound clinic at our office in Cypress, TX.

Training Period

What is the total length of the training program? 36

What is the anticipated length of supervised clinical training a resident will experience during this program? 33

Will the resident(s) in this program be eligible to take the ACVR Preliminary Exam in September of their third year? Yes

What are the responsibilities of the resident(s) during non-clinical portions of the program?

Our residents will spend their non-clinical training in personal preparation for the qualifying section (6 weeks) and for the certifying section (1 week) of the ACVR board examination. The remainder of the time will be filled with attending specific training seminars and short courses that are recognized by the ACVR.

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Direction and Supervision

When calculating time commitment in this section, you may consider a 100% (full time) duty schedule to consist of 48 weeks per year with 8 hours per day or 40 hours per week.

Residency Director

Please review the Residency Director requirements and responsibilities in the [ACVR Residency Program Essential Training Standards and Requirements](#) (RPE) document. Note that the Residency Director will be required to provide at least 24 weeks of clinical duty per year in primary support of residents in this program and to meet all other qualifications of a Supervising Diplomate.

Is the applicant Residency Director for this program prepared to meet these requirements? Yes

What percentage of the Residency Director's time is committed to clinical service at the primary training institution? 90

How many weeks per year will the Residency Director be on clinical service and teaching residents at the primary training institution? 60

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Additional Training Diplomates

Please review the definitions and responsibilities of [Supervising Diplomate and Supporting Diplomate](#) in the RPE document. Note that Supervising Diplomates will be required to provide at least 10 weeks of clinical duty in primary support of residents in this program, and are expected to participate in all facets of residency training. Supporting Diplomates aid in residency training, but provide support that is limited, as by modality (e.g. only works in ultrasound), time commitment (e.g. clinical duty < 10 weeks per year), or other constraints that prevent them from qualifying as a Supervising Diplomate. Provide a copy of affiliation agreements with any diplomates that are located at an external institution (see Affiliation Agreement item at the end of this section).

Excluding the Residency Director, please list all training diplomates who will act as Supervising Diplomates of this residency program. Indicate the approximate number of hours per year each supervisor will be scheduled on clinical duty with primary support of residents and, if applicable, any specific areas of instructional responsibility (e.g. trains mostly in small animal, trains mostly in MRI, etc). If a 'Supervising Diplomate' position will be comprised of multiple radiologists, please list the cohort as a single entity or institution for this question (e.g. "teleradiologists" or private institution name)

Name: Robert Werner, DVM, DACVR

Hours/Year: 2,000

Specific Areas and/or Limitations of Instructional Responsibility: All areas, no restrictions

Institution: VitalRads- Cypress

Name: Kris Brand, DVM, DACVR

Hours/Year: 2,000

Specific Areas and/or Limitations of Instructional Responsibility: All areas, no restrictions

Institution: VitalRads - Cypress

Name: Marc Lee, DVM, DACVR

Hours/Year: 2,000

Specific Areas and/or Limitations of Instructional Responsibility: All areas, no restrictions

Institution: VitalRads - Cypress

Please list all training diplomates who will act as Supporting Diplomates of this residency program. Indicate how many hours per year each Supporting Diplomate will be scheduled on clinical duty with primary support of residents and any specific areas of instructional responsibility and/or limitations in the scope of this support (e.g. only trains residents in ultrasound, does not participate in large animal training, does not finalize imaging reports, etc).

Name: Cathy Ruoff, DVM, DACVR

Hours/Year: 2,000

Specific Areas of Instructional Responsibility: All areas, no restrictions

Institution: VitalRads

Name: Jessica Vallone, DVM, DACVR

Hours/Year: 1,200

Specific Areas of Instructional Responsibility: All areas, no restrictions

Institution: VitalRads

Name: Robert Cole, DVM, DACVR, DACVR (Equine)

Hours/Year: 1,000

Specific Areas of Instructional Responsibility: All areas including equine specialty, no restrictions

Institution: VitalRads

Name: Matthew Gutman, DVM, DACVR

Hours/Year: 400

Specific Areas of Instructional Responsibility: All areas, no restrictions

Institution: VitalRads

Name: Lee Yanik, DVM, DACVR

Hours/Year: 1,000

Specific Areas of Instructional Responsibility: All areas, no restrictions

Institution: VitalRads - Seattle

Name: Grant Middleton, DVM, DACVR

Hours/Year: 1,500

Specific Areas of Instructional Responsibility: All areas, no restrictions

Institution: VitalRads - Seattle

In addition to ACVR/ECVDI Diplomates, the program must arrange for the resident(s) to have direct access to specialists in other areas. Please identify one member in each of the specialty colleges listed below that has agreed to support this program through clinical activity that allows regular interactions between the specialist and the diagnostic imaging residents (e.g. discussion of diagnostic work up, imaging findings, or patient outcomes, and/or participation in interdisciplinary rounds, etc). Indicate whether the specialist is located on-site at the primary institution at an external institution. Provide a copy of affiliation agreements with any non-ACVR/ECVDI diplomates that are located at an external institution (see Affiliation Agreement section at the end of this application).

Upon completion of this application, the below individuals will receive an email requesting acknowledgement of their support of your residency program.

ACVIM Member Name	Robert Murtaugh
ACVIM Member Institution	Thrive Veterinary Healthcare
ACVIM Member Email	bob@pathwayvets.com
ACVS Member Name	William Liska
ACVS Member Institution	Global Veterinary Specialists
ACVS Member Email	billliska@aol.com
ACVP Member Name	Jeff Edwards
ACVP Member Institution	SmartPath Diagnostics
ACVP Member Email	jeffreyedwardsdvm@gmail.com

Upload any affiliation agreement(s) with Supervising Diplomates, Supporting Diplomates, or Diplomates in other specialties that are located at external institutions. (see Affiliation Agreement section at the end of this application.) Refer to the RPE document for an explanation of what information should be included in such agreements.

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Resident:Supervising Diplomate Ratio

The number of residents in the program cannot exceed twice the number of Supervising Diplomates **on-site**. Remote Supervising Diplomates will not count when calculating the maximum residents allowed in a given program.

What is the maximum number of imaging interns you will have enrolled in this training program at any given time?

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Facilities

Review the Facility Requirements listed in the RPE document. Note also that residents should have opportunities to be involved with image acquisition and protocol set-up.

Does this residency training program provide on-site access to modern equipment for the following modalities?

Digital or Computed Radiography	Yes
Fluoroscopy	Yes
Ultrasound with Doppler Capability	Yes
MRI	Yes
Fan-beam CT	No
Nuclear scintigraphy	No

Briefly describe how this program meets the facility requirements, including the specific type of CT and MRI units available. Explain how your program will train residents in modalities for which equipment is not located on site, providing affiliation agreements if applicable. (see Affiliation Agreement item at the end of this section)

VitalRads is a radiology and teleradiology company founded in 2010 by Brian Poteet. VitalRads reads diagnostic studies in all modalities (Rad, CT, MR, US, Nuclear medicine and Pet/CT) for general practitioners and other specialty clinics including 2 US universities. Currently, VitalRads reads approximately 700 cases per day. We currently employ 6 full-time radiologists (4 of which are located in the Cypress-Houston area) and numerous part-time radiologists as well as cardiologists, ophthalmologist and a veterinary dentist. VitalRads main office is located in Cypress, TX in a medical office building. Our residents and radiologists are typically found in this office interpreting cases via teleradiology. We also have a dedicated out-patient ultrasound, radiology and fluoroscopy facility, where our residents get additional hands-on, private practice experience interacting with animals, pet parents and referring veterinarians in the Houston area. VitalRads also has a busy mobile ultrasound service that serves the Houston area that is lead by a certified RDMS sonographer with over 20 years of dedicated veterinary experience. Our corporate offices provide state of the art equipment to ensure an effective and efficient educational experience in interpreting all modalities in veterinary imaging. In order to satisfy the equine clinical training requirement, our residents also have dedicated, scheduled time focused equine topics, including rounds (including KCC) and equine journal article review with Bob Cole, DACVR, DACVR (equine). We also provide generous funding for our residents for travel to attend various weekend seminars that are given by and sponsored by the ACVR ("brain camp", MR and CT short courses, etc.). Through our affiliation with Iowa State University, College of Veterinary Medicine, our residents also enjoy additional, annual, supervised, scheduled training in ultrasound as well as CT/MRI acquisition, setup and planning. Our affiliation with Iowa State-CVM also allows our residents access to their PACS and medical records for case follow-up, as well as library access, including PubMed journal searches and downloads. In addition, each resident will also obtain 4-6 weeks, additional hands-on, supervised ultrasound training with Drs. Yanik, Shannon and Middleton in Seattle, WA. The total individual resident ultrasound training provides for 1,530 case supervised interactions (including performing, writing preliminary reports and reviewing the radiologist finalized report)*. VitalRads currently owns 7 ultrasound machines (Samsung RS80, 3 Samsung HM70 units and 3 Philips Lumify units).

* Ultrasound case breakdown per resident for 3 year residency: VitalRads - Houston, 990 US cases, VitalRad - Seattle, 300 US cases, ISU - 240 cases. The total supervised US cases per resident per residency is 1,530.

Affiliation Agreement, if applicable



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Please describe how residents will gain experience in image acquisition and protocol set-up for each of these modalities (excluding nuclear medicine).

Each resident will have scheduled out-rotations at our affiliate, Iowa State University concentrating in CT/MRI acquisition, setup and planning.

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Clinical Resources and Training Content

Review the clinical resource and training content requirements listed in the RPE document

What is the average annual caseload at the primary institution over the past 3 years? This number will include all patient visits whether or not they contribute to the annual imaging caseload. 170000

What is the average annual imaging caseload at the primary institution over the past 3 years? Each body region imaged for a given patient (e.g. thorax, abdomen, spine, etc) will count as a single study.

170000

What is the average annual imaging caseload at the primary institution over the past 3 years in the following categories?

Small animal radiology	125000
Large animal radiology	1000
Abdominal ultrasound	21000
Non-abdominal ultrasound	400
Computed tomography	4000
Magnetic Resonance Imaging	800
Nuclear scintigraphy	2
Other (Specify)	1500 - exotics

Indicate the approximate species breakdown of the imaging caseload at the primary institution in the following categories:

Small animals (canine, feline): 85%
Large animals (equine, bovine, porcine, etc.): 5%
Avian, Exotic, and Wildlife animals: 10%

Which of the following types of imaging cases will the resident(s) have direct, on-site exposure to at the primary institution during the residency program?

Echocardiography	Yes
Large animal ultrasound	No
Nonabdominal small animal ultrasound (i.e. cervical, musculoskeletal)	Yes
Food/fiber animal imaging	No
Exotics imaging	Yes
Teleradiology/Referral imaging	Yes

Explain how the resident(s) in this program will gain experience in any of the above types of

imaging cases that are NOT available at the primary institution. Provide affiliation agreements, if applicable. (see Affiliation Agreement item at the end of this section).

Google, text books, affiliation with Iowa State and Bob Cole.

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What percentage of the total imaging caseload at the primary institution results in a written imaging report being generated by either the residents or the training radiologist diplomates in this program? 100

What percentage of the preliminary reports generated from the imaging caseload are initially produced by the resident(s) in this program? 40

Does this institution concurrently support the training of diagnostic imaging interns? No

What percentage of resident-generated reports are reviewed by training diplomates prior to finalization of the report? 100

What is the average turnaround time for resident-generated preliminary reports to be finalized by training diplomates?

Less than 12 hours.

What percentage of all imaging reports (resident and diplomate generated) is finalized and available to requesting clinicians within 48 hours after the exam is submitted for radiologist consult? 100

Please describe how after-hours/weekend/holiday cases are handled at the primary institution. How does this affect resident-reported imaging caseload?

The residents rotate weekend shifts for preliminary reads. There is no after hours emergency duty.

For each category below, calculate the approximate number of cases that a single resident will interpret at the primary institution with radiologist feedback during the course of the entire residency program. These numbers should be calculated using the annual imaging caseload adjusted to include only those with written reports generated by the residents. In general, this number should then be divided by the total number of residents in a program during a given year.

If external rotations for the resident(s) are employed to increase the resident caseload in any given category, please be sure to upload affiliate agreements that include the expected number of reports that residents can expect to generate (with radiologist feedback) for cases in those categories.

Small animal radiology 110000

Large animal radiology	200
Abdominal ultrasound	8500
Non-abdominal ultrasound	1300
Computed tomography	3000
Magnetic resonance Imaging	1100
Nuclear scintigraphy	2

How many ultrasound exams will a single resident perform with radiologist supervision and feedback during the course of the entire program? Scans for which the resident writes a report but does not acquire images are excluded.

1530

Do residents in this program have ample hands-on training and practice opportunities to become proficient in the performance of ultrasound guided fine needle aspirates and biopsies?

Yes

Upload any affiliation agreement(s) that are in place to support the resident caseload in modality, case number, species, etc. Refer to the RPE document for an explanation of what information should be included in such agreements.



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Please indicate whether this training program includes formal courses in any of the following topics:

Physics of Diagnostic Imaging

Yes

Radiobiology

Yes

Nuclear Medicine

No

Ultrasonography

Yes

Computed Tomography

Yes

Magnetic Resonance Imaging

Yes

Other

No

Briefly describe the formal courses that are available for the resident(s) in this program by indicating the institution, course title, course number, and credit hours as well as any other relevant information. For any topics for which formal course work is not provided for the resident(s), please explain how educational objectives in these topics will be met.

Each first year resident is required to attend 3 graduate level courses taught by Brian Poteet, DVM, MS, DACVR. The courses each last approximate 16 weeks (equivalent to a typical college semester), 1 per trimester. Each course has a formal syllabus and reading assignments that each resident is expected to complete prior to each class. The class is held 1 hour each week during the course trimester. The courses include: Radiologic Physics, Radiobiology, Safety and Protection and Alternate Imaging and Special Procedures.

Do residents have access to a majority of the written pathology reports that are generated from patients included in this imaging caseload?

Yes

Will the resident(s) in this program attain an advanced degree (MS, PhD) at the conclusion of the program?

No

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Research Environment

Review the Research Requirements listed in the RPE document.

Over the last five years, what is the average number of peer reviewed publications on which the training diplomates (Supervising and Supporting diplomates) of this program are included as authors? (total number of publications in last 5 years among all training diplomates divided by the number of training diplomates) 3

How many peer-reviewed publications are expected of a resident completing the program? 1

If this is an established program, what percentage of residents have made formal research presentations at the annual ACVR or equivalent national meeting? 2

Briefly describe if/how residents are encouraged to engage in investigative work and what mechanisms are in place for training diplomates to support this work.

We discuss project possibilities during journal club each week and how these studies are designed and how this may have affected their conclusions. The residents are encouraged to do a project, usually retrospective in nature, during their program.

Educational Environment

Review the Educational Environment expectations listed in the RPE document.

Please list and enumerate the formal presentations that are expected of each resident during the course of their training. In general, didactic lectures, departmental seminars, scientific presentations, Continuing Education presentations, and similar are considered "formal". Informal topic rounds, journal club, small group teaching (like student rounds), student labs, and similar events should not be included.

1. Lectures at local VMA - each resident is expected to present at a local VMA at least once during their residency program.
2. State and national meetings - each resident is encouraged to speak at a national meeting. This is not always possible as they cannot always get the opportunity to be scheduled.
3. Thrive sponsored national meetings, held in Austin, TX, including the annual House Officers Seminar which is attended by over 130 veterinarians.
4. Didactic classes - Each resident is expected to present at each of the weekly didactic graduate level class.

Briefly describe the type and extent of teaching opportunities that are provided to the resident throughout the training program.

Residents are encouraged and do participate in lecturing at local VMA's in the Texas and Houston area, as well as participation in teaching our many referral veterinarians on image interpretation and radiographic positioning tips, additional views, etc. They have also participated in teaching labs at the Southwest Veterinary Symposium. They also participate in seminars at sponsored by Thrive/Pathway Veterinary Alliance for the 400+ owned hospitals and the Thrive sponsored national seminars.

Briefly describe the nature and scope of the teaching file available to the resident(s) in this program and how it is maintained/updated.

We have an electronic image teaching file that is indexed on PACS. Each case has a written report, which was finalized by an ACVR Diplomate. This library is added to daily by our radiologists. Currently, the VitalRads teaching file (images and their reports) totals 1,340 studies.

How many Known Case Conferences are conducted annually? 40

Describe the nature and frequency of resident rounds ("other educational events") planned for this program. You may upload an example schedule with the general program schedule that is requested at the end of this application.

1. KCC - lead by a boarded radiologists, 40 per year.
2. VitalRads Journal club - 1 hour, every other week.
3. Large Animal specific rounds - 1-2 hours, once a month, presented by Bob Cole (DACVR-equine), including article discussion, case rounds and KCC specific to large animal.
4. VitalRads daily case rounds

Describe how the resident(s) in this program will attain direct and consistent medical library access and/or how they will access research tools and medical literature including the suggested references listed in the ACVR Preliminary Examination study guide.

Affiliation with Iowa State College of Veterinary Medicine includes medical sciences library access, including PubMed searches and full article retrieval.

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Evaluation and Protection of Residents

For existing programs, list the names, email contact information, and start/end dates of your current residents.

Ben Colburn, DVM, July 1, 2021-June 30, 2024. benjamin.colburn@vitalrads.com
Dalal Hares, DVM, July 1, 2022 - June 30, 2025. dalal.hares@vitalrads.com
Kaitlin "Kitty" Goldsby, July 1, 2023 - June 30, 2026. kaitlin.goldsby@vitalrads.com

Did all of your current residents adequately complete the last 6 months of training?

No

If no, please explain.

One first year resident resigned after 5 months deciding they did not want to be a radiologist after all. One third year resident reluctantly resigned due to ongoing medical issues.

List the current members of the resident review committee.

Brian A Poteet, MS, DVM, DACVR
Bobby Werner, DVM, DACVR

Describe the internal mechanisms in place at your institution to protect the resident(s) if personal or organizational conflicts arise. Include the management hierarchy for residents and procedures by which residents would report workplace misconduct.

Brian Poteet, resident director
Bobby Werner, senior radiologist
Dave Stearns, manager

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Appendix

Please provide the following information regarding preliminary and certifying board exam pass rates for residents in your program over the past five years.

Preliminary Board Exam Pass Rate

2020

Number Of Prelim Board Eligible Residents: 2

Number of Residents That Took Prelim Exam: 2

Number of Residents That Passed On 1st Attempt: 2

Number of Residents That Passed After Multiple Attempts: 0

Number of Residents That Have Not Passed: 0

2019

Number Of Prelim Board Eligible Residents: 3

Number of Residents That Took Prelim Exam: 3

Number of Residents That Passed On 1st Attempt: 3

Number of Residents That Passed After Multiple Attempts: 0

Number of Residents That Have Not Passed: 0

2018

Number Of Prelim Board Eligible Residents: 2

Number of Residents That Took Prelim Exam: 2

Number of Residents That Passed On 1st Attempt: 2

Number of Residents That Passed After Multiple Attempts: 0

Number of Residents That Have Not Passed: 0

2017

Number Of Prelim Board Eligible Residents: 1

Number of Residents That Took Prelim Exam: 1

Number of Residents That Passed On 1st Attempt: 1

Number of Residents That Passed After Multiple Attempts: 0

Number of Residents That Have Not Passed: 0

2016

Number Of Prelim Board Eligible Residents: 1

Number of Residents That Took Prelim Exam: 1

Number of Residents That Passed On 1st Attempt: 1

Number of Residents That Passed After Multiple Attempts: 0

Number of Residents That Have Not Passed: 0

Certifying Board Exam Pass Rate

2020

Number of Certifying Board Eligible Residents: 3

Number of Residents That Took Certifying Exam: 3

Number of Residents That Passed On 1st Attempt: 2

Number of Residents That Passed After Multiple Attempts: 0

Number of Residents That Have Not Passed: 1

2019

Number of Certifying Board Eligible Residents: 2

Number of Residents That Took Certifying Exam: 2

Number of Residents That Passed On 1st Attempt: 1

Number of Residents That Passed After Multiple Attempts: 1

Number of Residents That Have Not Passed: 0

2018

Number of Certifying Board Eligible Residents: 1

Number of Residents That Took Certifying Exam: 1

Number of Residents That Passed On 1st Attempt: 0

Number of Residents That Passed After Multiple Attempts: 1

Number of Residents That Have Not Passed: 0

2017

Number of Certifying Board Eligible Residents: 1

Number of Residents That Took Certifying Exam: 1

Number of Residents That Passed On 1st Attempt: 1

Number of Residents That Passed After Multiple Attempts: 0

Number of Residents That Have Not Passed: 0

2016

Number of Certifying Board Eligible Residents: 1

Number of Residents That Took Certifying Exam: 1

Number of Residents That Passed On 1st Attempt: 0

Number of Residents That Passed After Multiple Attempts: 1

Number of Residents That Have Not Passed: 0

Program Schedule

Upload a schedule for your residents that outlines their clinical and non-clinical work over the course of the residency program. This may be a master schedule or duty roster for your entire radiology section, if desired. If available, an example weekly or monthly rounds schedule can also be included.

Program Schedule



VitalRads Schedule Resident... .xlsx

Affiliation Agreements

Upload digital copies of any affiliation agreements that have not been included elsewhere in this

document. Refer to the RPE document for an explanation of what information should be included in such agreements.



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