Summer Research Programs for Veterinary Students

- Veterinary Scholars Program Research Internship for first and second year vet students
- CVM Interdisciplinary Biomedical Research Training Program (NIH/T35)
- Morris Animal Foundation Veterinary Student Scholars Program
- Hitchings Award
- AVMA/AVMF summer research fellowship
# Summer Research Programs for Veterinary Students

<table>
<thead>
<tr>
<th>Students Accepted/Number of Applications Allowed</th>
<th>AVMA/AVMC Summer Research Fellowship</th>
<th>Interdisciplinary Biomedical Scholars Program (NIH/NIH)</th>
<th>Morris Animal Foundation Veterinary Student Scholars Program (MAF)</th>
<th>Hitchings Award</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st or 2nd Year of 2nd Year</td>
<td>Any with VSP exp/1</td>
<td>DVM/PhD students/2</td>
<td>1st or 2nd Year/1</td>
<td>2nd Year &amp; DVM/PhD unlimited</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Research Experience</th>
<th>N</th>
<th>Y</th>
<th>Y</th>
<th>NA</th>
<th>NA</th>
</tr>
</thead>
<tbody>
<tr>
<td>DVM/PhD students</td>
<td>OK</td>
<td>OK</td>
<td>R</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>Mentors</td>
<td>1 from Mentor List</td>
<td>Submitted with a faculty member</td>
<td>1 from Mentor List</td>
<td>Submitted with a faculty member</td>
<td>Submitted with a faculty member</td>
</tr>
<tr>
<td>Weekly Seminar Series</td>
<td>R</td>
<td>SR</td>
<td>R</td>
<td>SR</td>
<td>O</td>
</tr>
<tr>
<td>Practice Oral Abstracts and Presentations</td>
<td>R</td>
<td>R</td>
<td>R</td>
<td>R</td>
<td>O</td>
</tr>
<tr>
<td>Attendance at BINVSS</td>
<td>O</td>
<td>R</td>
<td>R</td>
<td>O</td>
<td>O</td>
</tr>
<tr>
<td>Presentation at CVM Research Forum</td>
<td>R</td>
<td>SR</td>
<td>R</td>
<td>SR</td>
<td>SR</td>
</tr>
<tr>
<td>Duration/Compensation</td>
<td>10 WKs (Mar-July) $5,000 lump sum in June</td>
<td>10 WKs (Mar-July) $5,000</td>
<td>12 WKs (Mar-July) $5,700 lump sum in June</td>
<td>12 WKs (Mar-July) $5,000</td>
<td>12 WKs (Mar-July) $5,000</td>
</tr>
<tr>
<td>Funding</td>
<td>NCSU-CVM/COM, Resnick FFD, Endowments</td>
<td>AVMA/AVMF/NIH/Tos Grant</td>
<td>MAF</td>
<td>BWF/Hitchings</td>
<td></td>
</tr>
</tbody>
</table>

**Mentor List**: go.ncsu.edu/cvm_research_mentors

**R** = Required  **SR** = Strongly Recommended  **O** = Optional
CVM Summer Research Program

• Sponsors
  – Boehringer-Ingelheim
  – College of Veterinary Medicine
  – Veterinary Medical Foundation
    • Fund for Discovery
    • Herbert Benjamin Professorship Endowment
    • Fluoroscience Professorship Endowment
      – Deborah and Paul Resnick
  – CMI
  – MANY DVM faculty members
Goals

• Provide research experience to DVM students
VSP Program Summary

• MENTORED RESEARCH EXPERIENCE
  – May 13th-July 22\textsuperscript{nd} 2019

• Seminar Series

• Field trips-NIEHS or EPA or Charles River

• Project presentations

• Boehringer-Ingelheim/NIH National Veterinary
  Scholars Symposium-Tufts/MIT in 2019

• Website: https://cvm.ncsu.edu/research/student-
  research-opportunities/
Impact on Post-DVM Training

• Some go on to formal training-PhD, Fellowship
• 60-75% of seniors that participated in our program in the last several years were selected for internships
• Many go on to advanced clinical and/or research training
Stipend and Hours

• Internship stipend ($5,000)
  – Provides salary support over a 10 week period during the summer
  – Your mentor is expected to fund the actual research project (supplies etc)
Seminar Series

- Experimental design, ethics, animal use issues, data analysis, critical reading, generating money for research
- Abstract preparation and project presentations
- Wednesdays 8-9
Field Trips

EPA

NIEHS
CVM Research Forum

- CVM research
  - Oral presentations
  - Poster sessions
  - Phi Zeta Speaker

![Chemotaxis Graph](chart.png)
Boehringer Ingelheim-NIH National Veterinary Scholars Symposium

NC State University
College of Veterinary Medicine

MERCK-Merial • NIH-NCRR
National Veterinary Scholars Symposium

Translational Research:
Putting Discoveries to Work in Practice
Poster Sessions
Networking
VSP Program Eligibility

• First or second year DVM students
  – Second year students have priority
• No prior graduate (research) degree
• Significant research experience may lower priority
• Not limited to NC State students
  – NC State students eligible for programs at other schools
    – http://www.merialscholars.com
How to find a mentor and a project

• See the VSP WEBSITE for the list of Mentors and PROJECT DESCRIPTIONS

• Meet with prospective mentors to discuss potential projects between now and January 21st 2019

• Decide on one or two and work with them to prepare your application
Interdisciplinary Biomedical Research Training Program (T35)

• Summer Research Experience
• Prior research experience desired-opportunity for a 2\textsuperscript{nd} summer of research
• 12 week Mentored research experience
  – 2 mentors in different disciplines
  – Primary mentor must be an approved trainer in the IBRTP (website)
• Funded by NIH/ORIP via a T35 mechanism
• Requirements
  – 12 weeks mentored research
  – Attend NVSS
  – Seminar series if you have not already attended
  – Presentation at CVM research forum
• Eligibility-any first or second year vet student-NC State or other schools
• Start date May 13\textsuperscript{th}, 2019
• Stipend: $5,750
Application-VSP and T35

- **Form** is available on the Website
- Application:
  - Submit **one** application using online form
  - Indicate which program(s) you are applying to
  - Select one or two potential primary mentors/projects-each proposed primary mentor must sign the form
  - Co-mentor is optional for VSP but is required for the T35
  - **Deadline for Applications: February 4th 2019**
  - Submit to the program office by email: cvmgradprogram@ncsu.edu
Boehringer-Ingelheim Veterinary Research Award

Veterinary students who:

– participated in the summer scholar program
– attended the Boehringer Ingelheim-NIH National Veterinary Scholars Symposium
– presented their work in the form of a poster
– $1,500 honorarium, a plaque, a travel stipend to return to the summer symposium to present their project and receive the award
Morris Animal Foundation Veterinary Student Scholars Program

- Mentored research experience for veterinary students—may have already participated in a summer research program
- Typically a summer research project
- Stipend provided ($5,000)
- Limited to 1 application per school
- Applications must be submitted to Jeneal Leone by our internal deadline for selection
- **Due to MAF Wednesday, March 6, 2019**
- Check the MAF website for details
- Details: [http://www.morrisonanimalfoundation.org/for-grant-seekers/veterinary-student-scholars.html](http://www.morrisonanimalfoundation.org/for-grant-seekers/veterinary-student-scholars.html)
Hitchings Award

• Funding for DVM student research
  – Must be mentored
  – Favors proposals that are student ideas
  – Stipend and/or Project support
  – Funded by BWF and administered through the Triangle Community Foundation--$5,000 limit
  – Second year of doctoral study to be eligible
  – Open to DVM/PhD students
  – Applications are due February-March
AVMA/AVMF 2\textsuperscript{nd} Summer Research Scholarship

- Eligibility: Vet students who have already participated in a summer research program during vet school
- $5000 stipend plus $1000 travel to NVSS
- Applications limited to 1 per school
- Applications must be submitted to Jeneal Leone 2 weeks prior to AVMF deadline for selection
- https://www.avmf.org/programs/2nd-opportunity-research-scholarship/
Questions?