

Title: Building a One Health Curriculum for Colorado 4-H

Faculty Mentor: Sue VandeWoude, (Director CSU One Health Institute; University Distinguished Professor, Department of Microbiology, Immunology, Pathology, College of Veterinary Medicine and Biomedical Sciences, sue.vandewoude@colostate.edu)

Other Mentors: Libby Christensen (FCS and 4-H Agent, Colorado State University Routt County Extension, lchristensen@co.routt.co.us)

Location: Fort Collins, with opportunity to attend and observe county fairs/exhibit days. Students may also travel to other extension offices to conduct interviews and observe programming.

Goals, scope, and objectives: The goal of the internship is to provide 2-3 interns with the opportunity to develop skills in translating the transdisciplinary concept of One Health into an accessible and engaging curriculum for 4-H youth between the ages of 11 and 18 (for an example of the end product review [MSU Health for One, One Health for All](#)). One Health recognizes the intersection of human, environmental, and environmental health solving complex problems at the nexus of these three health sectors requires transdisciplinary, collaborative action. 4-H curricula already recognizes the importance of these connections; this project will aim to make them tangible.

The interns will work as a team with the support of the CSU One Health Institute, CSU faculty from across campus involved in OHI, the CSU 4-H State Office, and a field-based Extension agent advisory committee. The scope of work done by the interns will include an inventory of existing One Health K-12 curriculum, meeting with campus and field partners to identified specific topics/skills to be included in the curriculum, drafting curriculum, and identifying potential funding opportunities. Specific objectives include: (1) continued development of relationships between CSU One Health Institute, CSU College of Veterinary Medicine and Biomedical Sciences, and CSU Extension, (2) analysis of One Health curriculum, (3) production of a One Health 4-H curriculum, and (4) identification and creation of materials for potential funding to pilot curriculum.

Background: Routt County has an award winning 4-H vet sciences program that is a model for other programs around the state. Working with a local veterinarian, the Routt County youth go through the 4-H vet science curriculum supplemented with hands-on experiences. Youth have demonstrated significant interest in topics that would benefit from the introduction and exposure to One Health concepts. For the project, we have identified five field-based agents with strong 4-H vet sciences programs to support the interns' work and pilot the created curriculum.

Outcomes: By the end of the internship the intern will develop important skills necessary to: (1) conduct a curriculum review, (2) translate complex concepts and ideas into a medium that is accessible and engaging to youth 11 to 18, (3) coordinate and communicate with a diverse set of stakeholders, and (4) identify grant-funding opportunities.

Mentorship style: The mentor contacts will provide the general structure of the internship and ongoing support to ensure that the mentee can thrive, while providing the flexibility necessary to make the project something they can own. The mentee will also be encouraged to experience the wide variety of tasks associated with an Extension career, in addition to the focusing on a particular research project.

Travel Funds: Any travel within the state will be covered.