

Assistant/ Early Associate Professor - Microbiology of
Anaerobes in Animal and Environmental Systems
Cornell University

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Posted May 14, 2024, set to expire Sep. 13, 2024

Job Title	Assistant/ Early Associate Professor - Microbiology of Anaerobes in Animal and Environmental Systems
Department	Animal Science https://cals.cornell.edu/animal-science
Institution	Cornell University Ithaca, New York
Date Posted	May 14, 2024
Application Deadline	August 15, 2024 will be given full consideration. Applications will be accepted until the position is filled.
Position Start Date	The anticipated starting date is January 2025 or as negotiated.
Job Categories	Assistant Professor Associate Professor
Academic Field(s)	Animal Science Agricultural - General
Job Website	https://academicjobsonline.org/
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Job Description	

Faculty Position Available:

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Assistant/Early Associate Professor

Cohort Hire: Accelerating Livestock Innovations for Sustainability

Focus: Microbiology of Anaerobes in Animal and Environmental Systems

Department of Animal Science, Cornell University

Position: Assistant/Early Associate Professor, Tenure-track.

Location: Ithaca, NY. The academic home for this position is the Department of Animal Science in the College of Agriculture and Life Sciences, housed on the Ithaca campus of Cornell University.

The Department of Animal Science in the College of Agriculture and Life Sciences (CALs) at Cornell University is seeking a highly collaborative Anaerobic Microbiome Scientist to deepen our understanding of the microbial ecology of the rumen and gastrointestinal tract of livestock with the goal of decreasing methane production and improving the efficiency of nutrient use in the ruminant.

The College of Agriculture and Life Sciences (CALs) Roadmap to 2050 is **centering environmental justice to achieve climate and sustainability goals** via a cohort of hires within our [Transdisciplinary Moonshots](#) – opportunities for the College to collaborate on future-focused, cross-disciplinary scientific breakthroughs and to align research, education, and extension programs for greater impact and stronger connectivity. The Moonshot areas build upon core strengths in CALs, spanning the agricultural, environmental, life, and social sciences, with the goal of recruiting 27 faculty into the College over the next three years.

The **Accelerating Livestock Innovations for Sustainability** moonshot is a campus-wide initiative to advance holistic climate solutions that reduce greenhouse gas emissions from livestock production systems, enhance resilience of production systems to climate change, protect the livelihood of farmers and health of animals, and ensure food security globally. Livestock methane emissions are a potent and significant contributor to climate change worldwide. Cutting methane can reduce global warming by ~0.5 degrees C in the next decade, thereby slowing the rapid pace of climate change. [CALs is leading in methane reductions](#) through our innovative approach to fostering collaborations among researchers, educators, and industry that aim to reduce these emissions while protecting food

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production, animal health, and farmers' livelihoods. In addition to this hire, the cohort will include new faculty positions in *Global Livestock Sustainability* (Animal Science) and *Production Economics* (Dyson School of Applied Economics and Management).

We are seeking applicants for a 9-month, full-time tenure-track position in Ruminant Microbiology of Anaerobes in Animal and Environmental Systems at the assistant/early associate professor level. The successful applicant is expected to maintain an internationally recognized and competitively-funded research program that focuses on microbiome science in animal systems. The candidate is anticipated to leverage contemporary techniques to reveal meaningful interactions between the ruminant microbiome and methanogenesis within the context of diverse diets, genetics of the ruminant and their microbiome, and/or external environments including those that induce stress.

The successful candidate will be encouraged to collaborate with faculty members focused on the study and potential regulatory approval of methane-reducing feed additives on enteric and manure greenhouse gas emissions. Existing and future ruminant microbiome data sets will be made available to the successful candidate as a means to foster collaboration and support the development of the candidate's program. The faculty member will also have access to an active community of microbiome scientists through the [Cornell Institute of Host-Microbe Interactions and Disease](#) and more than fifty faculty members spanning the Field of Microbiology across five colleges.

Outstanding research scholarship is expected, as is excellence in and commitment to teaching, translation of knowledge, and advising and inclusive mentoring of students. We seek colleagues with an outstanding record demonstrating success and promise across all these areas; who will be supported by and contribute to a vibrant culture of inclusive excellence at Cornell. The successful candidate will be expected to engage in service and leadership activities within the department, college, university, and relevant professional societies. We welcome candidates who understand the barriers facing historically marginalized and excluded identities who are underrepresented in the classroom and in higher education (as evidenced by life experiences and educational background) and who have experience in equity and inclusion concerning teaching, mentoring, research, outreach, life experiences, or service towards building an equitable and diverse scholarly environment.

Responsibilities: This position has an effort split of 50% research and 50% teaching.

Research (50%) – Outstanding research scholarship is expected, as the successful candidate will lead an internationally-recognized and well-funded research program focused on anaerobic microbiology and rumen ecology as it pertains to methanogenesis in ruminants. Excellence in and commitment to

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development of multidisciplinary team-based research and training programs is essential.

Teaching (50%) – The successful candidate will contribute to teaching an undergraduate course in ruminant microbiology and participate in cross-campus teaching efforts related to microbiology.

Department Affiliation: The successful candidate will be a tenure-line faculty member of Cornell University, College of Agriculture and Life Sciences and will be based in the Department of Animal Science. The new faculty member will have the opportunity to become part of campus-wide initiatives such as the Cornell Institute of Host-Microbe Interactions and Disease and the Cornell Atkinson Center for Sustainability.

Qualifications: The successful candidate will have a Ph.D. in Animal Science, Microbiology, or a related field with an understanding of anaerobic microbiology and/or ruminant animal biology. Previous postdoctoral training is preferred but not required. A commitment to research and teaching in the Animal Science undergraduate major and to the development of multidisciplinary team-based research and training programs is essential.

Applications and Starting Date: The anticipated starting date is January 2025, or as negotiated. Qualified applicants should submit 1) a cover letter briefly summarizing background, qualifications, and interest in the position; 2) a Curriculum Vitae; 3) a research statement outlining experience, interests, and goals; 4) a teaching statement outlining experience, interests, and goals; 5)) a [statement supporting diverse communities](#) (this can be a stand-alone document (preferred) or the information can be embedded in other parts of the application materials) outlining how, through research, teaching, service, mentoring, extension, and/or outreach, the candidate has and will contribute to support Cornell's historical mission of "any person ... any study"; 6) copies of four relevant publications; and 7) names and contact information for three references. Materials should be submitted online to: <https://academicjobsonline.org/ajo/jobs/27517>. Applications received by **August 15, 2024**, will be given full consideration. Applications will be accepted until the position is filled.

Inquiries may be directed to:

Search chair: Joseph McFadden

Email: JWM43@cornell.edu

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CALS hiring range for position:

Assistant Professor: \$79,400 - \$135,000

Associate Professor: \$97,500 - \$148,500

EEO/AA Policy

Cornell University offers a competitive salary and benefits package. Support for start-up costs will be available. Salary is commensurate with experience.

The College of Agriculture and Life Sciences (CAL S) is a pioneer of purpose-driven science and Cornell University's second largest college. We work across disciplines to tackle the challenges of our time through world-renowned research, education, and outreach. The questions we probe and the answers we seek focus on three overlapping concerns: We believe that achieving next-generation scientific breakthroughs requires an understanding of the world's complex, interlocking systems. We believe that access to nutritious food and a healthy environment is a fundamental human right. We believe that ensuring a prosperous global future depends on the ability to support local people and communities everywhere. By working in and across multiple scientific areas, CAL S can address challenges and opportunities of the greatest relevance, here in New York, across the nation, and around the world.

Cornell University seeks to meet the needs of dual career couples, has a Dual Career program, and is a member of the [Upstate New York Higher Education Recruitment Consortium](#) to assist with dual career searches including positions available in higher education in the upstate New York area.

Cornell University is an innovative Ivy League and Land-grant university and a great place to work. Our inclusive community of scholars, students, and staff impart an uncommon sense of larger purpose and contribute creative ideas to further the university's mission of teaching, discovery, and engagement.

Cornell's regional and global presence includes state-wide Cornell Cooperative Extension programs and offices in all counties and boroughs, global partnerships with institutions and communities engaged in life-changing research and education, the medical college's campuses on the Upper East Side of Manhattan and Doha, Qatar, and the Cornell Tech campus on Roosevelt Island in the heart of New York City.

Diversity and Inclusion are a part of Cornell University's heritage. We are a recognized employer and educator valuing AA/EEO, and we do not tolerate discrimination based on any protected characteristic, including race, ethnic or national origin, citizenship and immigration status, color, sex/gender,

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pregnancy or pregnancy-related conditions, age, creed, religion, actual or perceived disability (including persons associated with such a person), arrest and/or conviction record, military or veteran status, sexual orientation, gender expression and/or identity, an individual's genetic information, domestic violence victim status, familial status, marital status, or any other characteristic protected by applicable federal, state, or local law. We also recognize a lawful preference in employment practices for Native Americans living on or near Indian reservations in accordance with applicable law.

Cornell University embraces diversity and seeks candidates who will contribute to a climate that supports students, faculty, and staff to all identities and backgrounds. We strongly encourage individuals from underrepresented and/or marginalized identities to apply.

Contact Information

Please reference Academickeys in your cover letter when applying for or inquiring about this job announcement.

Contact Joseph McFadden, Search Committee Chair
Animal Science
Cornell University
149 Frank Morrison Hall
507 Tower Rd
Ithaca, NY 14853

Contact E-mail jwm43@cornell.edu