

Six (6) Postdoctoral Fellowships in Bioinformatics Strategies for the Prediction of Biodiversity and Ecosystem Services, University of Guelph, Canada

Land Acknowledgement

The University of Guelph resides on the treaty lands and territory of the Mississaugas of the Credit. We recognize this gathering place where we work and learn is home to many past, present, and future First Nations, Inuit, and Métis peoples. Our acknowledgement of the land is our declaration of our collective responsibility to this place and its peoples' histories, rights, and presence.

General Information (Six PDF Positions in Bioinformatics Available)

This post-doctoral position will be part of the Food from Thought initiative funded through a Canada First Research Excellence Award: <https://foodfromthought.ca/>. Contributing to this large endeavour to improve food security and sustainability, our goal is to generate bioinformatics strategies for the prediction of biodiversity and ecosystem services from diverse data types, such as -omics data, digital photographs, and/or environmental data. Data analysis has begun to catch up with the pace of data generation, and in these times where understanding and mitigating the effects of climate change and feeding a growing human population is of utmost importance, we need to turn our sights on connecting different sources of data and extracting actionable meaning from them. The successful applicants will utilize existing and new biological and environmental datasets, along with additional external data, with the goal of predicting ecosystem services, ecosystem health status, and biodiversity metrics using approaches such as statistical learning, machine learning, and network analysis. This may include such important factors as pollination, invasive species resistance, pest control, trophic interactions, water quality, and others. Successful applicants will be part of a cohort of six postdoctoral scholars focused on bioinformatics and ecosystem services, who will work together with a multidisciplinary team of Principal Investigators, students, staff, industry members, and communities.

What We Offer

- The opportunity to engage in creative and impactful research relevant for sustainability and food security
- The opportunity to collaborate with researchers in a variety of fields, including computer science, statistics, ecology, evolutionary biology, and genomics
- Guidance to build valuable skills and to be well prepared for diverse future careers (skills include scientific research; collaboration; communication with diverse stakeholders; technical skills relating to coding, data analysis, graphics, code review, and publishing of bioinformatics tools)
- Access to unique data sets and participation in collaborative partnerships with academics, industry, and governmental agencies
- Regular, inclusive, and supportive mentorship from multiple PIs with diverse expertise to support your research, career, and impact/outreach goals

- Participation in a collaborative working group of PDFs, workshops, and conferences
- Monetary support for professional development, workshop participation, and conference attendance (up to \$5000) as well as open-access publishing (\$3000)



Postdoctoral Fellowship in Bioinformatics and Environmental Effects Monitoring, Adamowicz Lab, Department of Integrative Biology

Specific Information

We are seeking candidates interested in developing bioinformatics tools and predictive models for environmental effects monitoring. This may include using DNA barcoding, metagenomics, and environmental data to predict measures of ecosystem health in freshwaters impacted by industrial effluents or agricultural activities, as contrasted with reference or conservation sites. This work is important for developing efficient methods to leverage high-throughput data to perform biomonitoring and to support decision making.

Successful applicants will also be committed to respectful collaboration and communication, including with industry and academic collaborators as well as community groups. Anticipated deliverables from the research include: one or more scientific publication(s), well-commented code that is made publicly available by the end of the project, and a user manual (and GUI, if suitable) for any bioinformatics tools created such that the predictive models are user friendly and can respond to future data availability. The successful applicant will also be expected to participate in a PDF Working Group (which may include collegial discussion, collaboration, and/or reciprocal code reviews prior to publication), in the annual Knowledge Mobilization Working Group Meetings, as well as in at least one relevant scientific or industry conference. The successful applicant will also play a role in co-mentoring an undergraduate or graduate student and will contribute to research design.

The selected candidate will be based in the research group of Dr. Sarah J. Adamowicz (Associate Professor of Integrative Biology & Graduate Faculty in Bioinformatics) and will also benefit from working closely with a co-advisor with complementary expertise in statistics or computer science as well as other collaborators.

Required Qualifications & Attributes

- Must hold a PhD in bioinformatics, evolutionary biology, molecular ecology, genomics, or a related discipline (or PhD completion anticipated by the end of 2022)
- Published (or in press) at least one first-authored paper in a peer-reviewed journal

- Experience with coding in at least one programming language (intermediate to advanced level required; skills must include: data formatting and filtering, data exploration and quality checking, graphics, data analysis; prior experience in usage of high-performance computing resources an asset; prior experience in software development and code testing an asset; ideally, will be eager to learn new computational skills, as needed)
- Experience with at least one of: statistical analysis, analysis of DNA sequencing data, machine learning, and/or statistical learning
- Commitment to transparent and reproducible science (evidence of this commitment could include prior publication of code and/or a thorough methods section in your publication(s))
- Commitment to respectful interactions with others and to equity, diversity & inclusion (evidence of this attribute could include: prior or planned mentorship activities or collaborations; participation in relevant committees or working groups; your communication practices, etc.)

Application Requirements

A completed application will consist of:

- Cover letter describing your interest in the position and also highlighting how you meet the required qualifications and attributes
- Curriculum vitae (including education history, experience and skills, publication(s), conference presentations, outreach or leadership activities, interests)
- Names and contact information for three referees (Feel free to include academic advisors, collaborators, and/or an individual you have mentored.)
- PDF reprint of 1-3 publications (should be first author of at least one work published or in press; pre-prints are welcome among the selected submissions)

Please combine all of the above components into a **single PDF** and email to:

Dr. Tyler A. Elliott, Research Associate: telliott@uoguelph.ca

Length of Appointment & Salary

The PDF position is available for two years. Goal setting will be completed collaboratively early in the position, and progression will be discussed through regular meetings and reviewed at the one-year mark. The salary range is \$45,000-\$52,000 Canadian dollars annually, based upon skills and experience, plus 17.2% value in benefits. The selected candidate will also benefit through access to \$5,000 in travel funds for workshops and conferences and \$3,000 to publish in open-access venues.

Deadline

Review of applications will commence on December 6th, 2022 and proceed until the position is filled. The proposed start date will be approximately Jan 9, 2023 or as soon as possible thereafter (subject to discussion with the successful applicant). Short-listed candidates will be contacted for a live interview, to be conducted via a virtual meeting.

(Please note that the date for commencing the review of applications varies among the six positions, as some were advertised earlier in other venues.)

Equity, Diversity & Inclusion

The Adamowicz lab strongly supports diversity in science, and applicants from under-represented racial, cultural, gender-identity, physical ability, and/or neurological spectrums are particularly encouraged to apply. Applications can be received immediately; however, evaluation of the applications will not commence until December 6th, 2022 in order to allow for a diverse applicant pool to be evaluated.

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Postdoctoral Fellowship in Statistical Modelling for Environmental Effects Monitoring, Ali Lab, Department of Mathematics & Statistics

Specific Information

We are seeking candidates interested in developing statistical methods and predictive models for environmental effects monitoring. Statistical learning and ecological network modelling will be developed to predict ecosystem services, ecosystem health status, and biodiversity directly using raw metagenomic data (DNA sequence reads from whole communities of organisms, including insects and microbes). Specific applications may include study of ecosystem health in freshwaters impacted by industrial effluents or agricultural activities. This work is important for developing efficient methods to leverage high-throughput data to perform biomonitoring and to support decision making.

Successful applicants will also be committed to respectful collaboration and communication, including with industry and academic collaborators as well as community groups. Anticipated deliverables from the research include: one or more scientific publication(s), well-commented code that is made publicly available by the end of the project, and a user manual (and GUI, if suitable) for any bioinformatics tools created such that the predictive models are user friendly and can respond to future data availability. The successful PDFs will also be expected to participate in a PDF Working Group (which may include collegial discussion, collaboration, and/or reciprocal code reviews prior to publication), in the annual Knowledge Mobilization Working Group Meetings, as well as in at least one relevant scientific or industry conference. The successful applicant may also play a role in co-mentoring an undergraduate or graduate student.

The selected candidate will be based in the research group of Dr. R. Ayesha Ali (Professor of Statistics & Director of Master of Data Science Program) and will also benefit from working closely with a co-advisor with complementary expertise in bioinformatics or integrative biology as well as other collaborators.

Required Qualifications & Attributes

- Must hold a PhD in statistics, bioinformatics, genomics, applied mathematics, or a related discipline
- Published at least one first-authored paper in a peer-reviewed journal
- Experience with coding in at least one computer language (intermediate to advanced level required; skills must include: data formatting and filtering, data exploration and quality checking, graphics, data analysis; prior experience in usage of high-performance computing resources an asset; prior experience in software development and code testing an asset)
- Experience with at least one of: statistical analysis, analysis of DNA sequencing data, machine learning, and/or statistical learning
- Commitment to transparent and reproducible science (evidence of this commitment could include prior publication of code and/or a thorough methods section in your prior publication(s))
- Commitment to respectful interactions with others and to equity, diversity & inclusion (evidence of this attribute could include: prior or planned mentorship activities or collaborations; participation in relevant committees or working groups; your personal communication practices, etc.)

Application Requirements

A completed application will consist of:

- Cover letter describing your interest in the position and highlighting how you meet the required qualifications and attributes
- Curriculum vitae (including education history, experience and skills, publications, conference presentations, outreach or leadership activities, interests)
- Names and contact information for three referees (You may feel to include academic advisors, collaborators, and/or an individual you have mentored)
- PDF reprint of 1-3 publications (should be first author of at least one work published or in press; pre-prints are welcome among the selected submissions)

Please combine all of the above components into a **single PDF** and email to:

Dr. R. Ayesha Ali, Professor: aali@uoguelph.ca

Length of Appointment & Salary

The PDF position is available for two years. Goal setting will be completed collaboratively early in the position, and progression will be discussed through regular meetings and reviewed at the one-year mark. The salary range is \$47,000-\$52,000 Canadian dollars annually, plus 17.2% value in benefits. The selected candidate will also benefit through access to \$5,000 in travel funds for workshops and conferences and \$3,000 to publish in open-access venues.

Deadline

Review of applications will commence on December 6, 2022 and proceed until the position is filled. The start date will be as soon as possible thereafter (subject to discussion with the successful applicant).

Equity, Diversity & Inclusion

We strongly support diversity in science, and applicants from under-represented racial, cultural, gender-identity, physical ability, and/or neurological spectrums are particularly encouraged to apply. Applications can be received immediately; however, evaluation of the applications will not commence until December 6, 2022 in order to allow for a diverse applicant pool to be evaluated.



Postdoctoral Fellowship in Bioinformatics and Statistical Modeling of Microbiome Data, Nadeem Lab/Ricker Lab, Department of Mathematics & Statistics/Department of Pathobiology

Specific Information

We are seeking a strong statistical/computational biology candidate interested in developing bioinformatics tools and statistical models for host health based on microbiome data. The data for this work would include using 16S rRNA amplicon, metagenomics, and associated metadata to predict measures of healthy intestinal microbiome communities in livestock species. This work is important for contributing to the field of microbiome management and for the development and implementation of antibiotic alternatives, such as probiotics. Candidates with prior experience in statistical modeling (e.g., involving generalized linear mixed models) in the context of metagenomics data are especially encouraged to apply.

The selected candidate will be based in the research group of Dr. Khurram Nadeem (Assistant Professor in the Math & Statistics Department) and will also benefit from working closely with their co-advisor, Dr. Nicole Ricker (Assistant Professor in the Pathobiology Department) as well as other collaborators.

The successful applicant will be committed to respectful collaboration and communication, including with industry and academic collaborators as well as community groups. Anticipated deliverables from the research include: one or more scientific publication(s), well-commented code that is made publicly available by the end of the project, and a user manual (and GUI, if suitable) for any bioinformatics tools created such that the predictive models are user friendly and can respond to future data availability. The

successful PDFs will also be expected to participate in a PDF Working Group (which may include collegial discussion, collaboration, and/or reciprocal code reviews prior to publication), in the annual Knowledge Mobilization Working Group Meetings, as well as in at least one relevant scientific or industry conference. The successful applicant will also play a role in co-mentoring an undergraduate or graduate student.

Required Qualifications & Attributes

- Must hold a PhD in statistics, bioinformatics, computational biology, genomics, or a related discipline
- Published at least one first-authored paper in a peer-reviewed journal
- Experience with coding in at least one computer language, e.g. C/C++, Python, R (intermediate to advanced level required; skills must include: data formatting and filtering, data exploration and quality checking, graphics, statistical data analysis; prior experience in usage of high-performance computing resources an asset; prior experience in software development and code testing an asset)
- Experience with analysis of DNA sequencing data; machine learning, and/or statistical learning
- Commitment to transparent and reproducible science (evidence of this commitment could include prior publication of code and/or a thorough methods section in your prior publication(s))
- Commitment to respectful interactions with others and to equity, diversity & inclusion (evidence of this attribute could include prior or planned mentorship activities or collaborations; participation in relevant committees or working groups; your personal communication practices, etc.)

Application Requirements

- Cover letter describing your interest in the position and also highlighting how you meet the required qualifications and attributes
- Curriculum vitae (including education history, experience and skills, publications, conference presentations, outreach or leadership activities, interests)
- Names and contact information for three referees (You may feel to include academic advisors, collaborators, and/or an individual you have mentored)
- PDF reprint of 1-3 publications (should be first author of at least one work published or in press; pre-prints are welcome among the selected submissions)

Please combine all of the above components into a single PDF and email to: nadeemk@uoguelph.ca with subject line " PDF in Bioinformatics and Statistical Modeling of Microbiome Data".

Contact Info

Dr. Khurram Nadeem, Assistant Professor

Email: nadeemk@uoguelph.ca

Phone Number: 519-824-4120 ext. 53136

Website: [Department Faculty Profile](#)

Length of Appointment & Salary

The PDF position is available for two years. January 1, 2023; 1 year with the potential for renewal subject to satisfactory performance. Goal setting will be completed collaboratively early in the position, and progression will be discussed through regular meetings and reviewed at the one-year mark. The salary is \$47,000 Canadian dollars annually, plus 17.2% value in benefits. The selected candidate will also benefit through access to \$5,000 in travel funds for workshops and conferences and \$3,000 to publish in open-access venues. Working hours are 35 hours/week, Monday-Friday, but may vary.

Deadline

Review of applications commenced on November 15, 2022 and will proceed until the position is filled. The start date will be as soon as possible thereafter (subject to discussion with the successful applicant).

Equity, Diversity & Inclusion

The Nadeem and Ricker labs strongly support diversity in science, and applicants from under-represented racial, cultural, gender-identity, physical ability, and/or neurological spectrums are particularly encouraged to apply.

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**Postdoctoral Fellowship in Genomics of Agricultural Stream Fishes,
Mandeville Lab, Department of Integrative Biology**

Specific Information

We are seeking candidates who are interested in using genomic data and statistical modeling to explore the effects of agricultural development on freshwater fish populations. Our lab focuses on trying to understand how evolutionary processes may be modified in the face of anthropogenic disturbance, with particular attention to freshwater fish. For this project, we will be working with already-collected genomic data on up to ten freshwater fish species in southern Ontario, collected at sites spanning a gradient of agricultural practices. Specific research questions will relate to historical population dynamics, ecological/environmental drivers of genetic diversity, potential for loss of biodiversity through hybridization, and related topics. We will also aim to build better statistical methods for connecting

evolutionary outcomes to anthropogenic disturbance in a rigorous hierarchical framework that allows generalizations across space and time. The successful candidate will have the opportunity to shape exact directions of this work, within the parameters of available data and the goals of the larger collaborative project.

The ideal candidate will be interested in integrating our existing genomic dataset (genotyping by sequencing data for >1000 stream fish) with publicly available environmental data and with datasets collected by collaborators. We anticipate that the candidate will have expertise either in genomics or in ecological modeling, but cross-training will be available for candidates who are stronger in one of these areas than the other. We welcome candidates eager to build their computational skill sets, and hope that the successful candidate will help lead this work in new and exciting directions.

Successful applicants will also be committed to respectful collaboration and communication, including with industry and academic collaborators as well as community groups. Anticipated deliverables from the research include: one or more scientific publication(s), well-commented code that is made publicly available by the end of the project, and extensive documentation for any bioinformatics tools created such that the predictive models are user friendly and can easily incorporate future data updates. The successful PDFs will be expected to participate in a PDF Working Group (which may include collegial discussion, collaboration, and/or reciprocal code reviews prior to publication), in the annual Knowledge Mobilization Working Group Meetings, as well as in at least one relevant scientific or industry conference. The successful applicant will also play a role in co-mentoring an undergraduate or graduate student.

The selected candidate will be based in the research group of Dr. Liz Mandeville (Assistant Professor in Integrative Biology and the Bioinformatics Graduate Program; see <https://mandevillelab.uoguelph.ca> for additional information about our lab) and will also benefit from working closely with a co-advisor with complementary expertise.

Required Qualifications & Attributes

- Must hold a PhD in evolutionary biology, ecology, bioinformatics, molecular ecology, genomics, or a related discipline, or be on track to defend in the near future
- Experience with coding in at least one computer language (e.g. R) and strong interest in expanding computational skillset
- Commitment to respectful interactions with others and to equity, diversity & inclusion

Desired Qualifications & Attributes

- Have published at least one paper in a peer-reviewed journal, or have one or more papers in review or at the preprint stage
- Experience with at least one of: statistical analysis, analysis of genomic data, machine learning, and/or statistical learning
- Interest in producing transparent and reproducible science (e.g., through publication of code and data sharing)

Application Requirements

A completed application will consist of:

- Cover letter describing your interest in the position and also highlighting how you meet the required qualifications and attributes
- Curriculum vitae (including education history, experience and skills, publications, conference presentations, outreach or leadership activities, interests)
- Names and contact information for three referees (You may feel to include academic advisors, collaborators, and/or an individual you have mentored.)
- PDF reprint of 1-3 publications (should be first author of at least one work published or in press; pre-prints are welcome among the selected submissions)

Please combine all of the above components into a **single PDF** and email to:

Dr. Elizabeth Mandeville, emandevi@uoguelph.ca

Length of Appointment & Salary

The PDF position is available for two years. Goal setting will be completed collaboratively early in the position, and progression will be discussed through regular meetings and reviewed at the one-year mark. The salary is \$47,000 Canadian dollars annually, plus 17.2% value in benefits. The selected candidate will also benefit through access to \$5,000 in travel funds for workshops and conferences and \$3,000 to publish in open-access venues, and an appropriate computer will be provided.

Deadline

Review of applications will commence on December 6, 2022 and proceed until the position is filled. The start date will be as soon as possible thereafter (subject to discussion with the successful applicant).

Equity, Diversity & Inclusion

The Mandeville lab strongly supports diversity in science, and applicants from historically excluded racial, cultural, gender-identity, physical ability, and/or neurological spectrums are particularly encouraged to apply. Applications can be received immediately; however, evaluation of the applications will not commence until December 6, 2022 in order to allow for a diverse applicant pool to be evaluated. If accommodations are needed in the course of the application process, please contact Dr. Mandeville (emandevi@uoguelph.ca).



Postdoctoral Fellowship in Bioinformatics and Ecological Genomics, Steinke Lab, Department of Integrative Biology/Centre for Biodiversity Genomics

Specific Information

We are seeking candidates interested in developing bioinformatics tools for taxonomic and functional annotation of multi-kingdom samples. Data are generated from amplicon-based approaches and/or metagenomics/totalRNA. We want to estimate and potentially forecast how local biodiversity is shaped by regional diversity, functional shifts within communities, spatial gradients of biotic and abiotic factors, seasonal climatic constraints, local habitat heterogeneity, and anthropogenic stressors.

Anticipated deliverables from the research include: one or more scientific publication(s), well-commented and documented code that is made publicly available by the end of the project such that that it is user friendly and can respond to future data availability. The successful PDFs will also be expected to participate in a PDF Working Group (which may include collegial discussion, collaboration, and/or reciprocal code reviews prior to publication), in annual Knowledge Mobilization Working Group Meetings, as well as in at least one relevant scientific conference. The successful applicant will also play a role in co-mentoring undergraduate or graduate students.

The selected candidate will be based in the research group of Dr. Dirk Steinke (Adjunct Professor of Integrative Biology & Bioinformatics) and will also benefit from working closely with a co-advisor with complementary expertise in statistics or computer science as well as other collaborators.

Required Qualifications & Attributes

- Must hold a PhD in bioinformatics, evolutionary biology, molecular ecology, genomics, or a related discipline
- Published at least one first-authored paper in a peer-reviewed journal
- Experience with coding in at least one computer language (intermediate to advanced level required; skills must include: data formatting and filtering, data exploration and quality checking, graphics, data analysis; prior experience in usage of high-performance computing resources an asset; prior experience in software development and code testing an asset)
- Experience with at least two of the following: statistical analysis, analysis of DNA sequencing data, genome assembly, machine learning, and/or statistical learning,
- Commitment to transparent and reproducible science (evidence of this commitment could include prior publication of code and/or a thorough methods section in your prior publication(s))
- Commitment to respectful interactions with others and to equity, diversity & inclusion (evidence of this attribute could include: prior or planned mentorship activities or collaborations; participation in relevant committees or working groups; your personal communication practices, etc.)

Application Requirements

A completed application will consist of:

- Cover letter describing your interest in the position and also highlighting how you meet the

required qualifications and attributes

- Curriculum vitae (including education history, experience and skills, publications, conference presentations, outreach or leadership activities, interests)
- Names and contact information for three referees (You may feel to include academic advisors, collaborators, and/or an individual you have mentored.)
- PDF reprint of 1-3 publications (should be first author of at least one work published or in press; pre-prints are welcome among the selected submissions)

Please combine all of the above components into a **single PDF** and email to:

Dr. Dirk Steinke: dsteinke@uoguelph.ca

Length of Appointment & Salary

The PDF position is available for two years. Goal setting will be completed collaboratively early in the position, and progression will be discussed through regular meetings and reviewed at the one-year mark. The salary is \$47,000 Canadian dollars annually, plus 17.2% value in benefits. The selected candidate will also benefit through access to \$5,000 in travel funds for workshops and conferences and at least \$3,000 to publish in open-access venues.

Deadline

Review of applications will commence on December 15, 2022 and proceed until the position is filled. The start date will be as soon as possible thereafter (subject to discussion with the successful applicant).

Equity, Diversity & Inclusion

The [Steinke lab](#) strongly supports diversity in science, and applicants from under-represented racial, cultural, gender-identity, physical ability, and/or neurological spectrums are particularly encouraged to apply. Applications can be received immediately; however, evaluation of the applications will not commence until December 15, 2022 in order to allow for a diverse applicant pool to be evaluated.

Postdoctoral Fellowship in Machine Learning and Computer Vision Approaches for Bioinformatics Data Modelling and Analysis, Tulpan Lab, Department of Animal Biosciences

Specific Information

The project is focused on using biodiversity data to develop automatic and intelligent bioinformatics and machine/deep learning pipelines for taxonomic analyses, predictions, and estimations using microscopy-

based and other types of digital imagery. This research will create real-time biomonitoring and decision-making tools to measure and protect ecosystem services that are impacted by agricultural production.

The postdoctoral fellow will have the opportunity to work closely with faculty and assist with student co-supervision, training, co-authoring publications, and software packages. In addition, the postdoctoral scholar will work with a team of undergrad/grad students, postdocs, and professors to accomplish the above tasks. The project also financially supports travel costs and attendance to workshops and conferences. Mentoring and support for your research, outreach, and career goals will be provided.

Required Qualifications & Attributes

Required skills: The postdoctoral scholar candidate should have a strong background in bioinformatics and computational biology with additional knowledge of computational and modelling techniques. They must have a PhD degree in computer science, bioinformatics, or a related field. They must have proven experience performing a literature review, publishing scientific articles, intermediate modelling/programming knowledge and statistical analysis (e.g. R). The candidate should be self-motivated to learn, an independent worker, able to problem solve and have a critical thinking mindset. They should be able to work well within a group and have strong written and oral communication skills. The University of Guelph believes in improving equity, diversity, and inclusion in its study programs and workplaces; thus, all applicants are welcome who meet the above required skills.

Preferred skills: A successful candidate would have exposure to using a Linux environment, have intermediate programming skills in Python (pandas, sklearn, keras, OpenCV) and R, the desire to explore and develop new methods, strong evidence of academic writing skills (at least 1 publication as first author), teamwork experience, and the evidence of project management skills.

Application Requirements

Qualified candidates should send their CV, cover letter (2-pager), a 2-page research proposal, and the name and contact information (e-mail preferred) of 2 referees to Dr. Dan Tulpan (dtulpan@uoguelph.ca) with the subject "First name, Last name - Postdoctoral scholar application - 499190". Review of applications commenced on November 1st, 2022. Only candidates selected for interview will be contacted.

Learn more

- [Dr. Dan Tulpan's faculty page](#)

- [Centre for Genetic Improvement of Livestock website](#)
- [Completion and Postdoctoral Awards](#)

Length of Appointment & Salary

Duration: 2 years

Stipend: \$45,000/year + benefits + travel to 1 conference

Start date: January 1, 2023 or earlier

Deadline: Review of applications commenced on November 1, 2022.

Equity, Diversity & Inclusion

The Tulpan lab strongly supports diversity in science, and applicants from under-represented racial, cultural, gender-identity, physical ability, and/or neurological spectrums are particularly encouraged to apply.