

Postdoctoral scholar opportunity – Fruit genomics

Join an active research lab focused on integrating plant biology with computational analysis to achieve novel insight in fruit crop species and their wild relatives.

Start date: May 2025 (negotiable)

Salary: \$50,000 per year

Duration: 2 years

Location: Wolfville, Nova Scotia (Acadia University)



Conventional plant breeding is a slow and expensive process, but genomic tools can improve efficiency by enabling trait selection at an early stage using marker-assisted selection. Fruit quality is a critical priority for fruit crop breeding since consumer acceptance is the ultimate driver of cultivar success.

The postdoctoral scholar will work on development and application of genomic resources to accelerate the breeding of consumer-driven quality traits in perennial fruit crops, specifically focused on the two most economically important species in the Rosaceae family, apple and strawberry.

The research focus of the work will include pan-genome resources, genetic mapping of fruit quality traits, and other ongoing projects in the lab.

This work will be advised by Dr. Zoë Migicovsky, Canada Research Chair (Tier II) in Agri-Food and Sustainable Agriculture and Assistant Professor in Biology. To learn more visit <http://migicovskylab.ca/home.html> The postdoc will be based in the Biology Department at Acadia University and expected to contribute to mentorship of students in the lab and assist with funding applications.

The idea candidate will have:

- A PhD in Biology, Agriculture, Bioinformatics, Computer Science, or a related field
- Evidence of publishing in peer-reviewed journals
- Programming experience (e.g., R or Python)
- Experience with genomics
- Experience with agriculture or plant breeding an asset
- Demonstrated the ability to work collaboratively with others, think critically, and meet deadlines

For consideration, please send the following information by email (zoe.migicovsky@acadiau.ca) with “Fruit Genomics Postdoc” as the subject line:

- A letter outlining your research experiences and interest in the position (2 pages maximum)
- A recent CV including contact information for 2 referees (5 pages maximum)
- A scientific writing sample in the form of a peer-reviewed article or pre-print

Applications will be reviewed beginning November 12, 2024, but considered until the position is filled.