

**Posting
RESEARCH ASSOCIATE**

Position Title:	Research Associate
Hiring Unit:	Department of Biochemistry
Supervisor:	Dr. Alba Guarné
Work Location:	3649 Promenade Sir William Osler, Bellini Pavilion, room 470
Hours per week & Working Schedule:	40 hours/week, 9:00 – 6:00
Hourly Wage:	\$ 32.98
Planned Start Date & End Date of appointment:	September 14, 2020 – September 13, 2021 (renewable)
Date of Posting:	August 10, 2020
Deadline to Apply:	August 14, 2020

PRIMARY DUTIES

The research associate will use biochemical and biophysical techniques to study mechanisms of DNA repair and DNA transposition. The main starting project will be to optimize the conditions for expression and purification of structure specific nucleases involved in homologous recombination.

Primary Responsibilities:

- Cloning, protein expression and protein purification of difficult proteins
- Biochemical analysis of structure specific nucleases
- Protein-protein and protein-DNA interaction assays
- DNA repair functional assays
- Designing and participating in all aspects of data generation and analysis,
- Overseeing tri-council funded projects
- Co-supervising graduate and undergraduate students (including troubleshooting and analyzing experimental data)
- Assisting with grant applications and manuscripts for publication
- Maintaining equipment for protein expression and purification (shakers incubators, protein purification systems and other small equipment) and performing small repair
- Overseeing tri-council funded projects

EDUCATION/EXPERIENCE

PhD degree in Biochemistry with at least 5 years of research experience in molecular mechanisms of DNA repair or DNA replication.

OTHER QUALIFYING SKILLS & ABILITIES

- Extensive experience in protein purification
- Extensive experience in protein biochemistry and biophysics
- Prior experience in bacterial and yeast genetics
- Prior experience in structural biology (crystallography, NMR, MS-HDX, cryo-EM, etc)
- Strong publication record in reputable peer-reviewed journals
- Knowledge of data processing and statistical analysis

- Self-motivated and excellent team player
- Strong analytical skills and attention to detail
- Excellent written and communication skills in English
- Excellent organizational skills

HOW TO APPLY

Please submit your application to:

Please submit your curriculum vitae including a list of technical skills and publications as well as a short cover letter explaining the relevance of your goals and expertise to alba.guarne@mcgill.ca. We thank all applicants. **Only selected candidates will be contacted.**

McGill University is committed to equity in employment and diversity. It welcomes applications from indigenous peoples, visible minorities, ethnic minorities, persons with disabilities, women, persons of minority sexual orientations and gender identities, and others who may contribute to further diversification.

"All qualified applicants are encouraged to apply; however, in accordance with Canadian immigration requirements, Canadians and permanent residents will be given priority."