

POSTDOCTORAL POSITION IN ANTIBODY ENGINEERING

The Faculty of Pharmacy and Pharmaceutical Sciences at the University of Alberta invites applications for two (2) postdoctoral fellow positions in Antibody Engineering. The main purpose of this position is to develop human antibodies and bispecific antibodies for the therapeutic applications.

The research team led by Hoon H. Sunwoo, PhD (Associate Professor) is launching a new project for improving efficiency in human and bispecific antibody design and production. His laboratory is seeking two talented Post-Doctoral Fellow candidates in the areas of antibody engineering to lay down groundwork for the new project on therapeutic and diagnostic antibody production. The Postdoctoral Fellows will work as part of a team of scientists to study molecular and cellular biology, assay development, and cellular studies of the effects of antibodies. Vector design, cell line development, screening and isolation, characterization of recombinant antibody is within the scope of this work. Postdoctoral Fellows will be expected to publish their findings in high impact, peer-reviewed journals and assist graduate students involved in this research.

Candidates for the position must have a PhD and extensive research experience in genetics, immunology, cancer immunology, protein/antibody engineering, gene therapy or related setting; specifically in monoclonal antibody production, vector engineering, and yield optimization is preferred. Previous postdoctoral experience is considered an asset, but not required. Candidates must have excellent oral and written communication skills in English, and a strong work ethic.

Skills Requirements

Prior experience in the areas of molecular biology, protein engineering, murine and human antibody biology is required. Familiarity with one or more of the following areas is highly desirable:

- Cell line development for monoclonal antibody production, including expression vector design, transfection, clone screening and selection;
- Knowledge in recombinant antibody and various cancers;
- qRT-PCR and antibody characterization;
- Quadroma cell Technology for the production of bispecific antibody;
- Proficient at Fluorescence-activated Cell Sorting (FACS);
- Work in Chinese Hamster Ovary (CHO) cells and phage display technology

Qualifications:

- PhD in biology, immunology, genetics or related biomedical science field.
- Successful track record documented by publications in high-impact, international peer-reviewed journals.

- Excellent ability to research, design, refine project designs, and maintain detailed documentation.
- Highly motivated, creative, and devoted to project goals and proficient in scientific writing.
- Enjoy assisting and collaborating with graduate students, faculty and other laboratory personnel.
- Able to contribute in a meaningful way to scientific discourse.

For more info & to apply:

Applicants should send a cover letter stating their interests and qualifications, curriculum vitae, and names and contact information of three referees to:

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Closing date: Position open until filled.

We thank all applicants for their interest; however, only those individuals selected for an interview will be contacted. The University of Alberta offers appointments on the basis of merit. We are committed to the principle of equity in employment. We welcome diversity and encourage applications from all qualified women and men, including persons with disabilities, members of visible minorities and Aboriginal persons.