Senior Associate – Protein Technologies

Category: Scientific
Job ID: R-88062
Location: Burnaby, BC, CA
Additional Location:
Posted Date: 11/19/2019

Title: Sr Associate – Protein Technologies

Reports to: Director, Research

Location: Burnaby

Req#: R-88062

JOB SUMMARY

Amgen is a global biotechnology company that discovers and develops breakthrough therapies to treat serious human illne mission is to serve patients around the world and our medicines have made a dramatic difference in the lives of millions.

Amgen focuses on areas of high unmet medical need and leverages its expertise to strive for solutions that improve health and dramatically improve people's lives. A biotechnology pioneer since 1980, Amgen has grown to be one of the world's lea independent biotechnology companies, has reached millions of patients around the world and is developing a pipeline of n with breakaway potential.

Amgen's Therapeutic Discovery organization is seeking an enthusiastic, collaborative Senior Associate to join the Protein Technologies group at our Amgen British Columbia site. Protein Technologies is responsible for designing, planning and ex the generation of key enabling reagents to support discovery of small and large molecule therapeutics as well as cutting-ec modalities. We have openings in molecular biology as well as recombinant protein expression and purification and can craf opportunity that is the best fit for you and your experience. Well-suited applicants will have broad laboratory training, deep curiosity and a positive approach to working in a team-based research environment. These individuals will also have a track creative problem-solving and enthusiasm for tackling difficult research challenges.

Basic Qualifications

Master’s Degree in Molecular and Cellular Biology, Biochemistry or Chemistry

OR

Bachelor’s degree and 2 years of scientific experience

Preferred Qualifications

- Broad training in molecular biology techniques including:
    - Hands on experience in cloning and construct design
    - Familiarity with DNA analysis software
- Expertise with recombinant protein expression and/or purification, including
    - Mammalian tissue culture or microbial expression experience
    - Cell line generation including experience with transfection on mammalian expression platforms
    - Training in protein biochemistry, including proficiency in protein purification methods, with experienc chromatography instrumentation
- Strong written and verbal communication and interpersonal skills
- Desire to be a team player in a dynamic, cross-functional environment
- Demonstrated scientific analysis and problem-solving skills

Amgen endeavors to make its recruitment process accessible to any and all users. Reasonable accommodations will be pro upon request, to applicants with disabilities in order to facilitate equal opportunity throughout the recruitment and selectio process. Please contact TalentAcquisitionInquiries@amgen.com to make a request and ensure you include the requisition n

Reasonable accommodations are available, upon request, to facilitate the equal participation of candidates with disabilities you be selected for an interview.

Join Us

If you're seeking a career where you can truly make a difference in the lives of others, a career where you can work at the a forefront of biotechnology with the top minds in the field, you'll find it at Amgen.

Amgen, a biotechnology pioneer, discovers, develops and delivers innovative human therapeutics. Our medicines have help millions of patients in the fight against cancer, kidney disease, rheumatoid arthritis and other serious illnesses.

As an organization dedicated to improving the quality of life for people around the world, Amgen fosters an inclusive enviro diverse, ethical, committed and highly accomplished people who respect each other but compete intensely to win. Togethe the Amgen values as we continue advancing science to serve patients.

APPLY NOW

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Benefits

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SPECIAL ADVISORY: https://www.arzenovo.com/ is not affiliated with Amgen Inc.,

Reference

"Senior Associate – Protein Technologies." *Amgen,* 19 Nov. 2019, https://careers.amgen.com/ShowJob/JobId/388272/SeniorAssociate–ProteinTechnologies.

2978 Whisper Way
Coquitlam, BC V3E 3R8

December 3, 2019

Natalie Mirzaian
Amgen British Columbia Inc.
7990 Enterprise St
Burnaby, BC V5A 1V7

Dear Ms. Mirzaian,

In following Amgen's advancements in biotechnology, I am incredibly inspired to join Amgen's mission to advance drug development to serve patients as a Senior Associate on the Protein Technologies team. As a Bachelor of Science (Integrated Sciences) student nearing graduation, I am deeply interested in applying my knowledge in immunology and molecular biology to support therapeutic discoveries. Recently, it was fascinating to read about Amgen's breakthrough AMG 510, the first KRAS(G12C) inhibitor in clinical development. The markedly increased potency of this drug is remarkable for a target previously thought to be "undruggable". With strong skills in experimental design as well as solid analytical and leadership skills, I am confident in positively contributing to your Protein Technologies team at Amgen to enable discoveries similar to AMG 510.

Experimental Design and Academia and Industry Research Experience
As an undergraduate research summer student at SickKids, I investigated glucose uptake in human microvascular endothelial cells exposed to diabetogenic conditions and developed and optimized a protocol for measuring glycogen content in these cells. As a co-op student at Amgen, I assisted in developing a novel assay for improved biochemical characterization of monoclonal antibodies against diverse membrane protein targets. I routinely performed antibody purification using a high-throughput paramagnetic bead purification platform and immunoaffinity columns, as well as antibody quantification using bio-layer interferometry (Octet) to support downstream biochemical characterization and functional assays. Through these experiences, I worked independently and gained proficiency in designing and executing experiments involving mammalian cell culture, transfections, FACS, gel electrophoresis, western blot, protein expression and purification, RNA isolation, RT-qPCR, immunofluorescence, and analysis using FlowJo and ImageJ.

Analytical and Problem-Solving Skills
Through the research experiences at SickKids and Amgen mentioned above, I developed critical analytical and problem-solving skills necessary for tackling difficult research problems and analyzing experimental results. Strong written and verbal communication skills were also acquired through preparing manuscripts for publications and presenting at conferences such as the SickKids Summer Student Research Symposium.

Leadership and Collaboration Skills
Further, as a committee member of the Greater Vancouver Regional Science Fair (GVRSF), I worked extensively to build solid partnerships with sponsors of the regional science fair and worked closely with other GVRSF committee members and UBC Faculty of Science Office of the Dean administration staff to coordinate student activities and UBC Lab Tours for over 300 students attending GVRSF.

I am highly motivated to design and lead the generation of key enabling reagents to support discovery of small and large molecule therapeutics. Notably, I am confident that I have the strong laboratory, problem-solving and analytical skills to work effectively with scientists in your Protein Technologies team to support novel therapeutic developments at Amgen.

Thank you so much for your time and consideration. I look forward to speaking with you soon.

Sincerely,

Janice Pang

Encl. Résumé

Janice Pang

2978 Whisper Way, Coquitlam BC, V3E 3R8 | 778-788-3939 | janice.pang@alumni.ubc.ca

Objective

Research associate position in leading and designing enabling reagents supporting therapeutic discoveries

Highlights and Qualifications

- Bachelor of Science student with background in molecular biology and immunology
- Biotechnology industry and academia research experience in inflammation, diabetes and antibody biochemical characterization with demonstrated proficiency in cell culture, protein expression and purification, transfection, cell culture, FACS, gel electrophoresis, qRT-PCR, confocal microscopy and Octet
- Effective leadership, planning, communication and problem-solving skills in independent and team settings as demonstrated through research and volunteer experiences

Education

Bachelor of Science - Honours Integrated Sciences (Molecular Biology and Immunology) — Expected Graduation: May 2021
University of British Columbia, Vancouver, BC

- Recipient of UBC Science Entrance Award; Dean's Honour List

Relevant Courses

BIOC 303 – Molecular Biochemistry: Gained understanding of structure, function and metabolism of lipids, steroids, amino acids and nucleotides, and biochemistry and molecular biology of protein expression and gene regulation

MICB 302 – Immunology: Acquired fundamental knowledge on innate and adaptive immunity, including inflammatory, cell-mediated and humoral immune responses, as well as antibody structure and applications of hybridoma technology

Laboratory Skills

Cell culture, FACS, transfection, protein expression/purification, gel electrophoresis, western blot, bio-layer interferometry (Octet), RNA isolation, cDNA preparation, RT-qPCR, biochemical assays, confocal microscopy, immunofluorescence, image analysis (ImageJ), FlowJo

Research Experience

Antibody Characterization and Discovery Undergrad Co-op — May – Dec 2019
Amgen Inc., Burnaby, BC

- Developed a novel assay for improved biochemical characterization of lead monoclonal antibody panels against diverse membrane protein targets to enable better selection of antibodies with properties meeting program design goals
- Routinely performed antibody purification using a high-throughput paramagnetic bead purification platform and immunoaffinity columns, as well as large-scale antibody quantification using bio-layer interferometry (Octet) to support subsequent biochemical characterization and functional assays
- Worked independently to design, execute and troubleshoot experiments as demonstrated through proficiency in cell culture, transfections, FACS, gel electrophoresis, protein purification, and data analysis
- Gained strong scientific writing skills through preparing technical reports and working closely with scientists in preparing a manuscript for publication

Undergraduate Research Volunteer May 2017 –
Laboratory of Dr. Timothy J. Kieffer, University of British Columbia, Vancouver, BC May 2019

- Worked in close collaboration with post-doctoral fellows on projects investigating microRNAs as biomarkers for diabetes. Manuscript submission in progress.
- Conducted RNA isolation, RT-qPCR, western blot, and image analysis using ImageJ

Research Summer Student May - Aug
Laboratory of Dr. Amira Klip, The Hospital for Sick Children, Toronto, ON 2018

- Investigated glucose uptake in human microvascular endothelial cells exposed to diabetogenic conditions through RT-qPCR, confocal microscopy and glycogen content assay
- Developed and optimized protocol for measuring glycogen content in human microvascular endothelial cells
- Presented research findings at the Banting and Best Diabetes Centre Charles Hollenberg Summer Studentship Weekly Seminar Series and Summer Student Mini-Conference
- Top seven summer research student selected for oral presentations at the SickKids Summer Research Symposium Day

Research Student
Laboratory of Dr. Bruce Verchere, BC Children's Hospital Research Institute, Vancouver, BC Jan 2012 –
June 2016

- Developed four independent research projects focused on macrophage phagocytosis, inflammation in type 2 diabetes, and potential early biomarkers for type 2 diabetes
- Contributed image analysis data to a poster presented at the 2013 Child and Family Research Institute Summer Student Poster Day
- Acquired skills in cell culture of macrophages and pancreatic islets, FACS, ELISA, immunohistochemistry, RT-qPCR and image analysis using ImageJ

Volunteer Experience

Treasurer and Sponsorship Coordinator Oct 2016 –
Greater Vancouver Regional Science Fair (GVRSF), Vancouver, BC Present

- Prepared sponsorship funding applications and built solid partnerships with sponsors via email correspondences
- Coordinated student activities and UBC lab tours for over 300 students attending the science fair in close collaboration with GVRSF committee members and UBC Faculty of Science Office of the Dean administration staff
- Presented as the featured speaker at post-secondary workshops and science fair networking events
- Actively mentored Team GVRSF Canada-Wide Science Fair finalists

Honours and Awards

Banting & Best Diabetes Centre Charles Hollenberg Summer Studentship	University of Toronto	May 2018
Lunenfeld Summer Studentship	The Hospital for Sick Children	May 2018
2015 Intel International Science & Engineering Fair – Top 12 Canadian high school scientist, 4th Place Grand Award in Biomedical and Health Science	Society for Science & the Public	May 2015

References

Available upon request

2978 Whisper Way
Coquitlam, BC V3E 3R8

December 7, 2019

Christy Thomson
Amgen British Columbia Inc.
7990 Enterprise St
Burnaby, BC V5A 1V7

Dear Christy,

In following Amgen's latest developments, it has been amazing to read about all the recent advancements Amgen made in the oncology field. While working as an undergrad co-op in your Antibody Characterization and Discovery team, I learned a tremendous amount about the process of antibody generation and gained valuable exposure to research in the industry.

Currently, I am interested in pursuing a full-time research role in the biotechnology industry. Specifically, I am applying for the Senior Associate position in the Protein Technologies team at Amgen British Columbia. As a result, I am reaching out to you to see if you would be able to be my reference for this application.

The hiring team for the Senior Associate position is looking for applicants who have broad laboratory training, deep scientific curiosity and a positive approach to team-based research to support therapeutic discovery programs. As my former supervisor, I believe that you would be able to speak on behalf of my:

- Familiarity with various protein purification methods
- Experience in mammalian tissue culture and transfection on mammalian expression platforms
- Written and verbal communication and interpersonal skills
- Assay development project on improving biochemical characterization of monoclonal antibodies against membrane protein targets

For your reference, my current résumé is attached to this letter. Thank you so much for your mentorship in the past and consideration for this reference request. I look forward to hearing from you. If you have any questions or need any further information, please feel free to contact me at janice.pang@alumni.ubc.ca.

Sincerely,

Janice Pang

Encl. Résumé

2978 Whisper Way
Coquitlam, BC V3E 3R8

December 7, 2019

Suheda Erener
Helmholtz Zentrum München
German Research Center for Environmental Health (GmbH)
Institute for Diabetes and Cancer
Building 3620, Room 106a
Ingolstädter Landstraße 1
85764 Neuherberg

Dear Suheda,

Recently, it was wonderful to hear that our manuscript, "Pancreas-specific miR-216a regulates proliferation and endocrine and exocrine cell function in vivo", was submitted to a journal. While working with you at the Kieffer Lab, I enjoyed learning about microRNAs and developed valuable skills in various molecular biology techniques.

Currently, I am interested in pursuing a full-time research role in the biotechnology industry. Specifically, I am applying for the Senior Associate position in the Protein Technologies team at Amgen British Columbia. As a result, I am reaching out to you to see if you would be able to be my reference for this application.

The hiring team for the Senior Associate position is looking for applicants who have broad laboratory training and deep scientific curiosity to support therapeutic discovery programs. As my former supervisor, I believe that you would be able to highlight my:

- Early exposure and interest for scientific research in the field of diabetes research and biomarker discovery
- Proficiency in molecular biology techniques such as RT-qPCR, gel electrophoresis, western blot and RNA isolation
- Contributions to the project, "Pancreas-specific miR-216a regulates proliferation and endocrine and exocrine cell function in vivo"

For your reference, my current résumé is attached to this letter. Thank you so much for your guidance in the past and consideration for this reference request. I look forward to hearing from you. If you have any questions or need any further information, please feel free to contact me at janice.pang@alumni.ubc.ca.

Sincerely,

Janice Pang

Janice Pang

Encl. Résumé

2978 Whisper Way
Coquitlam, BC V3E 3R8

December 7, 2019

Samaneh Yazdani
The Hospital for Sick Children
Cell Biology Program, Research Institute
686 Bay Street, PGCRL, 19th Floor
Toronto, Ontario
M5G 0A4

Dear Samaneh,

The SickKids Summer Research program is an excellent program that provides undergraduate students the opportunity to conduct research and connect with other students with similar interests. While working with you as a summer student in the SickKids Summer Research program at the Klip Lab, I was able to diversify my diabetes research experience and explore the intricacies of glucose metabolism in relation to microvascular endothelial cells.

Currently, I am interested in pursuing a full-time research role in the biotechnology industry. Specifically, I am applying for the Senior Associate position in the Protein Technologies team at Amgen British Columbia. As a result, I am reaching out to you to see if you would be able to be my reference for this application.

The hiring team for the Senior Associate position is looking for applicants who have broad laboratory training and deep scientific curiosity to support therapeutic discovery programs. As my former supervisor, I believe that you would be able to comment on my:

- Familiarity with various molecular biology techniques such as RT-qPCR
- Experience in troubleshooting and optimizing protocols for experiments
- Investigations on glucose uptake in human microvascular endothelial cells exposed to diabetogenic conditions
- Written and verbal communication skills developed through presenting at the Banting and Best Diabetes Centre Charles Hollenberg Summer Student Mini-Conference and SickKids Summer Research Symposium Day.

For your reference, my current résumé is attached to this letter. Thank you so much for your mentorship in the past and consideration for this reference request. I look forward to hearing from you. If you have any questions or need any further information, please feel free to contact me at janice.pang@alumni.ubc.ca.

Sincerely,

Janice Pang

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