

Helen Hsu

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OBJECTIVE

To obtain a R&D Scientist, Consultant, Medical Writer, Project Manager, or related position

QUALIFICATIONS

- **6+** year research experiences in MedTech, Biotech, Health Science and Pharmaceuticals.
- **2+** year experience in Nutraceuticals & Pharmaceuticals products, Chronic Diseases Management and Health Care related field.
- Experienced **medical device** and wearable device development based on manufactory needs, familiar with regulatory of **FDA, ISO, Health Canada**.
- **2+** year experience with direct to client **Healthcare Consulting** business.
- Experienced in qualitative questionnaire development for healthcare research.
- **3+** years project management experiences, and familiar with **PM** approaches: **Waterfall and Agile**.

TECHNICAL SKILLS

- **Software:** Word, Excel, Power Point, EndNote, Corrosion Test, MATLAB, SPSS, Monday.com, Asana
- **Skilled Laboratory Instruments:** SEM, TEM, HPLC, NMR, MS, FT-IR, XPS, Instron, Electrochemistry Working Station, Multimeter, and basic laboratory equipment.

WORKING EXPERIENCES

Medical Device Project Specialist

03/2020 – 03/2021

Nanomedicine and Tissue Engineering Lab, Winnipeg, MB

- Proposed and initialed (**2.5M** funded) industry project: **4 types** medical device models.
- Verified basic functions with data analysis.
- Modified/ innovated the initial models based on FDA regulatory.
- Collaborated with **3** cross-functional teams.

Projects: Self-powered device for wound healing; Magnet nanoparticle micro-robot for surgical assistant; Self-powered biosensor for pacemaker; Biocompatible microneedles for drug delivery

Research Scientist

03/2017 – 03/2020

Biomaterials Lab, University of Manitoba, Winnipeg, MB

- Developed supercapacitors and biosensors with **5** types of advanced biomaterials by nano technologies based on industry desired functions and applications.
- Evaluated the performance and drawbacks of the devices based on industry requirement, and reported to supervisor.
- Drafted NSERC Funding, and published **6** articles in SCI journals with high impact factor (**7-10**).

Projects: Nanocellulose-based flexible supercapacitor; Biocompatible hydrogel-based supercapacitor; Self-powered multifunctional biosensor

Project Coordinator

03/2016 – 09/2016

Richardson Center for Functional Foods and Nutraceuticals, Winnipeg, MB

- Communicated directly with industry representative for updating progress (**3** projects).
- Coordinated the reference searching and experiments data reports with lab technician.
- Organized laboratory documents and recorded lab supplies in inventory book regularly.

Nutrition Consulting Team Manager

09/2013 – 02/2016

NutriSynerge Inc., Winnipeg, MB

- Investigated marketing demands and set up business as a team leader.
- Screened **200+** clients with interviews questionnaire for objectives clarification.

- Participated **200+** dietary plans development based on clients' goals.
- Followed clients regularly and built customer loyalty.
- Managed **5+** types of dietary-related chronic diseases: Type II diabetes, CVD, eating disorder, weight management, long-term cancer management.

EDUCATION: UNIVERSITY OF MANITOBA

Ph.D. of Biomedical Engineering	09/2016 – 04/2021
M. Sc. of Human Nutritional Sciences	03/2014 – 04/2016
B. Sc of Human Nutritional Sciences	01/2009 – 05/2013

CONFERENCE PRESENTATIONS

Canadian Biomaterial Society **05/2019**
Poster Presentation: BMSCs Self-Assembled with Polymer for Cancer Tropism and Programmed Homing

Manitoba Institute for Materials Conference **04/2019**
Poster Presentation: An Eco-Friendly, Nanocellulose/RGO/in Situ Formed Polyaniline for Flexible and Free-Standing Supercapacitors.

Canadian Biomaterial Society **05/2018**
Poster Presentation: Mussel-Inspired Dopamine and Carbon Nanotube Leading to a Biocompatible Self-Rolling Conductive Hydrogel Film

Canadian Society for Bioengineering (CSBE) **08/2017**
Oral presentation: Development of High-performance Nanocellulose from Natural Sources

Canadian Biomaterial Society **05/2017**
Oral Presentation: Layer-by-layer paper-stacking nanofibrous membranes to deliver adipose-derived stem cells for bone regeneration

Functional Foods and Natural Health Products Graduate Research Symposium **05/2014**
Poster Presentation: Antioxidants to improve the deep-frying stability of high oleic canola oil: Effects on color parameter

Canadian Conference for Fats and Oils (CAOCS) **05/2015**
Poster Presentation: The correlation between color and oxidation status in high oleic deep-frying oils: Impact of antioxidants

VOLUNTEER EXPERIENCE

Nutrition Education Facilitator **08/2013 – 11/2013**
Winnipeg Regional Health Authority, Winnipeg, MB

Registered Dietitian Assistant **04/2013 – 06/2013**
Healthy Start for Mon & Me, Winnipeg, MB

Registered Dietitian Assistant **02/2012 – 06/2013**
Victoria General Hospital, Winnipeg, MB

Recreation Assistant **02/2012 – 04/2013**
Misericordia Health Center, Winnipeg, MB