

JASON LEE

ENVIRONMENTAL ENGINEER

COVER LETTER

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DATE 27 September, 2018

SUBJECT Job application with 30 Forensic Engineering

POSITION Environmental Engineer or Scientist (Intermediate Associate)

Dear Sir/Madame:

Thank you for the opportunity to apply to be a part of 30FE. With a background in environmental consulting, I am confident that I have the experience, aptitude and attitude to excel in your Environmental & Remediation Group. Given my experience and education, I should also be qualified for a professional engineering license within the requested 2 years.

I have been working on environmental projects for the past 8 years in various sectors, including mining, oil and gas, manufacturing and waste management. The scope of work has ranged from life cycle assessments to policy and regulatory analysis, all of which have required a great deal of data collection/analysis. Some of my work is showcased in 9 publications (listed in my résumé) including a recently accepted scientific article by Nature Journal on *pathways for greening rare earth supply*. They are good examples of my ability for critical thinking, problem solving and clear data visualization.

In addition, I have over 4 years of experience in a management position, working as the lead consultant and manager on projects with, for example, the World Economic Forum and a top-5 energy company in China. I am familiar with different facets of project management and producing client deliverables. Perhaps one of the most telling indicators of my work quality and professional demeanor has been the offer for repeat work, which I was able to secure from both aforementioned clients.

Again, I am grateful for this opportunity to apply. Should you have any additional questions, please do not hesitate to contact me.

Sincerely,

Jason Lee

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CURRICULUM VITAE

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INTRODUCTION

I am a highly trained project manager, engineer and scientist with a breadth of experience ranging from consulting to research to rural development. I am passionate about environmental issues, and am looking for a position where I can make a positive difference in the world, however big or small.

SKILLS SUMMARY

-  Bilingual (English/Chinese)
-  Microsoft office
-  Environmental modeling
-  Life cycle and sustainable thinking

EDUCATION

MSc, Environmental Science and Engineering
Tsinghua University, China
2011-2014

BASc, Environmental Engineering
University of Waterloo, Canada
2004-2009

REFERENCES

Tsinghua University
Zongguo Wen, Professor

World Economic Forum
James Pennington, Specialist

EXPERIENCE

Senior Consultant, International Projects | Tsinghua Centre for Industry and Circular Economy
Beijing, China (September 2012 - June 2018)

Primarily responsible for acquisition and management of international research and consulting projects, which involved closely liaising with partners and clients. Projects employed environmental modeling and policy analysis to identify opportunities in sustainability.

Co-Founder, President | RISE Tsinghua
Beijing, China (October 2011 - December, 2015)

Developed a platform for graduate students to apply engineering principles to sustainable rural development projects in China.

Engineer, Water Projects | Sunlabob Renewable Energy
Vientiane, Laos (August 2009 - April 2010)

Project manager and technical designer for solar-powered water purification/distribution projects in off-grid communities.

SELECT PUBLICATIONS (9 IN TOTAL)

Pathways for Greening Rare Earths Supply in China
2018 | Published in Nature Sustainability

Recovery of Key Metals in the Electronics Industry in the People's Republic of China: An Opportunity in Circularity
2018 | Publication with the World Economic Forum

Evaluation of Urban Circular Economy Development: An Empirical Research of 40 Cities in China
2018 | Published in the Journal of Cleaner Production

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WORK EXPERIENCE

Senior Consultant, International Projects | Tsinghua Centre for Industry and Circular Economy
Beijing, China (September 2015 - June 2018)

- Circular economy senior adviser: Lead consultant on analysis of international policies and progress indicators for circular economy. Participated in high level advisory committees with, for example, the Chinese Association for Circular Economy (CACE) and Ellen MacArthur Foundation, to facilitate international knowledge sharing of circular economy development.
- Low-carbon development in the energy sector: Lead consultant to a top-5 energy company in China to collaborate with other multinationals in understanding and tackling greenhouse gas emissions, including its implications domestically and internationally.

Research Assistant | Tsinghua Centre for Industry and Circular Economy
Beijing, China (September 2012 - September 2015)

- Technical adviser on environmental and economic systems modelling: rare earths, energy efficient lighting, cement production, plastics recycling, etc.
- Analysis and development of a sustainable public procurement toolkit for the federal government in China, taking into account technical, financial and economic factors.

Engineer, Water Projects | Sunlabob Renewable Energy
Vientiane, Laos (August 2009 - April 2010)

- Project manager for solar-powered water distribution and purification in off-grid communities.
- Research and development of bio-sand filtration and its applicability in remote, rural areas.

Engineer in Training | Conestoga Rovers & Associates
Canada & US (8 months in 2007 and 2008)

- Operation, maintenance, and reporting of water treatment facilities in Maricopa County, Arizona.
- Sampling and analysis of remediation projects in accordance with CERCLA and EPA standards.
- Contract proposal for the construction of a central composting facility in York Region.

Environmental Health and Safety Representative | Suncor Energy Products, Inc.
Toronto, Canada (August - December 2007)

- Triple bottom line assessment (environmental, security, safety) of retail locations across Ontario.
- Responsible for updating best practices for waste disposal in accordance with new legislation.

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PUBLICATIONS

● Lee Jason Chi Kin, Wen Zongguo (2018). *Potential pathways for greening the production of rare earth elements*. Nature Sustainability (In Press)

Numerous Authors (2018). *Recovery of Key Metals in the Electronics Industry in the People's Republic of China: An Opportunity in Circularity*. Published online via World Economic Forum.

Wang Ning, Lee Jason Chi Kin, Zhang Jian, Chen Haitao (2018). *Evaluation of Urban Circular Economy Development: An Empirical Research of 40 Cities in China*. Journal of Cleaner Production, 180, 876-887

Wen Zongguo, Liu Shutong, Han, Juan, Di Jinghan, Lee Jason Chi Kin (2018). *Evaluation of Flue-Gas Treatment Technologies for Municipal Waste Incineration: A Case Study in Changzhou, China*. Journal of Cleaner Production, 184, 912-920

Wen, Zongguo; Hu, Yun; Lee, Jason Chi Kin; Luo, Enhua; Li, Huifang; Ke, Sihua (2018). *Approaches and policies for promoting industrial park recycling transformation (IPRT) in China: Practices and lessons*. Journal of Cleaner Production, 172, 20, 1370-1380

Wen Zongguo, Xu Jinjing, Lee Jason C.K., Ren Cuiping (2017). *Symbiotic technology-based potential for energy saving: A case study in China's iron and steel industrial parks*. Renewable and Sustainable Energy Reviews, 69, 1303-1311

Hu Yun, Wen Zongguo, Lee Jason C.K., Luo Enhua (2017). *Assessing resource productivity for industrial parks using adjusted raw material consumption (ARMC)*. Resources, Conservation and Recycling, 124, 42-49

Wen Zongguo, Li Huifang, Zhang Xueying, Lee Jason Chi Kin, Xu Chang (2017). *Low-carbon policy options and scenario analysis on CO₂ mitigation potential in China's transportation sector*. Greenhouse Gases: Science and Technology, 7, 40-52

Lee Jason Chi Kin, Wen Zongguo (2017). *Rare Earths from Mines to Metals: Comparing Environmental Impacts from China's Main Production Pathways*. Journal of Industrial Ecology, 21, 5, 1277-1290

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VOLUNTEERING AND NON-PROFIT ACTIVITIES

President | Scarborough North Political Provincial Riding Association

Toronto, Canada (December 2017 -
Present)

- Organize monthly meetings for executives of the riding association.
- Mobilize local volunteers for provincial election campaign.
- Host fundraising and other social events.

Co-Founder, President | RISE Tsinghua

Beijing, China (October 2011 -
December 2015)

- Built an organization for university students to apply engineering principles for sustainable rural development in China
- Designed and managed several rural development projects, notably the distribution of 1400 low-cost biosand filters to 13 villages in NingXia Province, China
- Recipient of several awards, including First Place in the National Social Initiative Competition in China

Contestant | Gobi March 250 km Ultra Marathon

Xinjiang, China (June 2013)

- Placed 9th of 160 participants in a self-supported ultra marathon (7 days, 250 km)
- Used the platform to raise close to \$3,000 for rural development projects in China (RISE)

Editor | Community Development and Environment Association

Vientiane, Laos (September 2009 -
April 2010)

- Compilation of project proposals and progress reports for international funders