



## APPLICATION FORM (INTERNSHIP)

### HIGH POTENTIAL INDIVIDUALS GLOBAL TRAINING PROGRAM

#### AGREEMENT

As stated below, I submit this application form to IITP regarding “High Potential Individuals Global Training Program” supported by Ministry of Science, ICT in South Korea.

\* IITP : Institute for Information & communications Technology Planning & Evaluation

Printed Name of  
CEO

Guennadi Saiko

Date(mm-dd-yyyy)

01-31-2020

Signature of  
CEO

***(Note)** This application is to represent the willingness to participate in this internship program and to search a partnership for institutes in Korea. Therefore, in its sole discretion, it is acceptable to contain only minimal information. (max. 3 pages) IITP may disclose the information below to the public for the purpose of providing information and matching a partnership between your institute and a Korean university.*

<b>1. Institute Name</b>							
<b>2. Details</b>	<b>Address</b>				<b>Website</b>		
	<b>Number of employees</b>		8		<b>Category</b>		<input type="checkbox"/> University <input type="checkbox"/> Research Institute <input checked="" type="checkbox"/> Industry <input type="checkbox"/> ETC.
<b>3. Technology field</b>	<b>A.I.</b>	<b>Big Data</b>	<b>Cloud Computing</b>	<b>Block Chain</b>	<b>AR/VR</b>	<b>ICT/SW Convergence</b>	<b>Other ICT /SW</b>
	X	X	X			X	
<b>4. CEO</b>	<b>Title</b>		Dr.		<b>Contact</b>		
	<b>Name</b>		Guennadi Saiko				
					E-mail:Gennadi@oxilight.ca		
					Tel :+1-416-616-7820		



<b>5. Capacity for interns</b>	3	<b>Support for students (all necessary)</b>	( X ) Visa support ( X ) Mentoring ( X ) Working Space ( X ) Accessibility to equipment
<b>6. Objectives</b>	<p>Develop a classification algorithm capable of classifying different types of respiratory sounds</p> <p>Implement the algorithm into distributed architecture (app + cloud backend)</p> <p>Test the solution in clinical settings</p>		
<b>7. Interns' Roles and Responsibilities</b>	<p>The first intern will be responsible for the development of a classification algorithm. He/she will be responsible for all stages of algo development: training/test set preparation, feature extraction, NN construction, NN training, optimization, algorithm evaluation</p> <p>The second intern will be responsible for the development of cloud infrastructure. He/she will design and implement optimal and scalable cloud architecture</p> <p>The third intern will be responsible for the development of a clinical app prototype, which will be used by front line health professionals. He/she will integrate trained NN into the app. He/she will be responsible for all aspects of medical app development: analyze user requirements,- design and develop a solution, test solution, deploy the solution, incorporate customer feedback. He/she will also be involved in clinical validation/evaluation.</p>		
<b>8. Requirements for Position</b>	<p>Common requirements: Computer Science or Software Engineering is preferable. Interest in healthcare and digital health</p> <p>Intern 1: experience with Neural networks (preferably CNN), understanding ML concepts and methods, Python, Tensorflow</p> <p>Intern 2: experience with cloud infrastructure (AWS or Google Cloud, preferably), cloud computing, serverless architecture, Python</p> <p>Intern 3: app development experience (iOS or Android), UX development (nice to have)</p>		
<b>9. Working Environment</b>	<p>High tech startup environment. Office: collaborative space located at Ryerson University campus in downtown Toronto. Access to all student facilities (gym, library). Access to extensive entrepreneurial programming (workshops, seminars)</p>		
<b>10. Request for Korean Universities</b>	<p>- The selection of students studying abroad should be conducted after mutual consultation, and please cooperate as much as possible to prepare for VISA.</p>		