

## Sembcorp Water Innovation Nanjing Programme (SWING) Programme Application Form

Interested companies with innovative technology are welcome to apply to the SWING programme by completing the preliminary screening form below and submitting to [sgp-swing.committee@sembcorp.com](mailto:sgp-swing.committee@sembcorp.com) for further evaluation.

The programme committee will contact you if you pass the preliminary screening and have been shortlisted into the programme. Thereafter, the programme committee will work with you to firm up a collaboration proposal to be presented at the upcoming SWING technology forum.

### PART 1. BASIC INFORMATION

Name	
Title	
Email address	

### PART 2. COMPANY INFORMATION

Company Name	
Company Location (City/State)	
Company Location (Country)	
Company Website	
Year of Establishment <i>(please enter 4-digit number)</i>	

### PART 3: SWING TECHNOLOGY PILLARS

**Please tick the theme that best categorizes your solution(s), you may pick up to 3.**

Biological technologies	Aerobic processes	<input type="checkbox"/>
	Anaerobic processes	<input type="checkbox"/>
Advanced oxidation processes	Fenton based processes	<input type="checkbox"/>
	Ozone based processes	<input type="checkbox"/>
	Photocatalysis	<input type="checkbox"/>
	Electrochemical oxidation	<input type="checkbox"/>
	Other AOPs	<input type="checkbox"/>
Water/Resource reuse	Zero liquid discharge process	<input type="checkbox"/>
	Evaporator, crystallization	<input type="checkbox"/>
	Ultrafiltration, nanofiltration, reverse osmosis membranes	<input type="checkbox"/>
Energy reduction	Energy saving process & system	<input type="checkbox"/>
	Forward osmosis process	<input type="checkbox"/>
	Capacitive deionization	<input type="checkbox"/>
Sludge management	Sludge reduction, treatment, repurpose	<input type="checkbox"/>
	Thickening, drying & energetic use for sludge	<input type="checkbox"/>

Process control and optimization	Digitalization for wastewater plants	<input type="checkbox"/>
	Process optimization & prediction	<input type="checkbox"/>
Others, please specify:		

#### **PART 4: PROBLEM STATEMENT**

Please write a short problem statement to describe the problem you are solving.

#### **PART 5: COMPANY SOLUTION**

Please describe what product, technology or service you are providing to solve the problem in mentioned in part 4. Please include the working principle of your technology.

If possible, kindly provide any information on the comparison of your technology with other products which may be similar in the market.

#### **PART 6: TARGET INDUSTRY**

Please select target industries below where you aim to deploy your solution/already deployed your solution(s).

Petrochemical	<input type="checkbox"/>
Pharmaceutical	<input type="checkbox"/>
Power	<input type="checkbox"/>
Textile	<input type="checkbox"/>
Food & Beverages	<input type="checkbox"/>
Other industries, please specify:	

#### **PART 7: CASE STUDY**

##### **A. For Water Treatment Technologies**

Please describe of an example of a case study for your solution, including the technology performance or impact to the client's problem.

If possible, please share the range of the capital and operating expenses (CAPEX & OPEX) to deploy your technology. In relation to OPEX, please share the chemical and energy consumption of your technology in terms of:

- a. kg chemical dosed/m<sup>3</sup> of wastewater
- b. kg chemical dosed/kg COD (applies to any targeted parameters)
- c. kwh/m<sup>3</sup> of wastewater
- d. kwh/kg COD (applies to any targeted parameters)

##### **B. For Digital Technologies**

Please describe an example of a case study for your solution, including the technology performance or impact to the client's problem.

If possible, please share the range of the capital and operating expenses (CAPEX & OPEX) to deploy your technology as well as your business service model.

### **PART 8: TECHNOLOGY PILOT TRIAL**

Please share a cost estimate (in USD) to carry out a pilot project with your company. The estimate should include the costs of pilot system of a proposed capacity (for water treatment technologies) or the service / software costs (for digital technologies).

### **PART 9: ADDITIONAL CASE REFERENCES**

**Please attach all additional case studies of your solution as supporting documents to this application form.**