

Sembcorp Water Innovation Nanjing Program (SWING) Program Application Form

Interested companies are welcome to apply to the SWING program by completing the preliminary screening form below and submitting to sgp-swing.committee@sembcorp.com by the application closing date, 30 April 2021.

The program committee will contact you if you pass the preliminary screening and have been shortlisted into the program. Thereafter, the program 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 reuse	Zero liquid discharge	<input type="checkbox"/>
	Ultrafiltration membranes, reverse osmosis	<input type="checkbox"/>
Energy reduction	Ceramic, mixed matrix membranes	<input type="checkbox"/>
	Forward osmosis	<input type="checkbox"/>
	Capacitive deionization	<input type="checkbox"/>
Sludge management	Sludge reduction	<input type="checkbox"/>
	Thickening, drying & energetic use for sludge	<input type="checkbox"/>
Process control	Digitalization for wastewater plants	<input type="checkbox"/>
	Process optimization & prediction	<input type="checkbox"/>

Others, please specify:		
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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 / m3 of wastewater
- b. Kg chemical dosed / kg COD (applies to any other targeted parameters)
- c. Kwh / m3 of wastewater
- d. Kwh / kg COD (applies to any other targeted parameters)

B. For Digital 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 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.