

CFD modeling of cooling system for Ozone Generator

Master Thesis project

1. About Ozonetech

Ozonetech in Stockholm has grown to become one of global leading technical and engineering company in ozone generation technology. Ozonetech is an award-winning green-tech company that has offered premium products for air and water treatment through the use of ozone since 1993.

Our unique technology and extensive expertise has made us a rapidly growing global company with installations in six continents. All development and manufacturing is located in Sweden. In addition, we have in-house specialists for consultation, planning, installation and service.

As a “Center of Excellence” within air and water treatment, we also collaborate in international efforts to develop global standards for purification solutions.

At Ozonetech, we have a strong incentive to reduce energy waste, health risks and the impact on the environment. Our current solutions provide a multitude of benefits in the processing and food industry, real estate, commercial kitchens as well as in the retail market. For additional information, visit our website at www.ozonetech.com

2. Project description and Aim

Ozone generator includes both the power supply and ceramic electrodes as well as the ozone generator vessel, should be cooled. We have a new design for cooling system based on water circulation. Several parameters affect the cooling system performance. This project will be implemented in Computational Fluid Dynamics (CFD) simulators to evaluate cooling performance. The main goal of this project is finding the best design for a cooling system. The project will be performed at Ozonetech.

This project would include the following:

- Literature review

- Create a research plan according to the time schedule
- CFD modeling of cooling system
- Evaluating of design and model
- Thesis writing

3. Personal profile

The project is suitable for one student with the ability to work independently and creatively. We expect our applicants to

- Come from a Mechanical or Chemical Engineering background or similar
- Have a strong background in CFD
- Have received high university grades

The interested candidate has the opportunity to work with a strong team of engineers and project sales individuals.

4. Scope

Expected scope: 20 weeks, 30 HP/credits

Expected start: Spring 2020

5. Application

We welcome your application! It must include:

- Cover letter
- CV
- Transcript of university grades

Candidates are encouraged to send in their application as soon as possible. We will interview suitable candidates continuously.

6. Contact

Please send your application by an e-mail with attached documents to

Mahmoud Abbasi, m.abbasi@ozonetech.com

Website: www.ozonetech.com

Please note that due to amount of applications, we can only process applicants who fulfil the requirements above.