**Electrical Engineer** (Controls)

**Decarbonize Faster. Any Fuel. Anywhere!**

Work with us to build the engines of the future that will replace combustion engines and diesel generators.

We are developing the next generation of hydrogen-powered fuel cells. We are a truly international global company, public in Nasdaq (ADN) with passionate people in Silicon Valley, Boston, Denmark, Germany, Greece, and Asia, committed to changing the world for the better. Now!

We are looking for a Controls Electrical Engineer to join our international engineering team. The current position is based in Patras, Greece**.**

**Essential Duties and Responsibilities:**

* Design and maintain control systems, industrial automation, and control applications to support test & development operations.
* Control engineering of a distributed process system, including multiple microcontrollers, and overall control management system
* Identification, selection, and implementation of control strategy of a multistage, non-linear system.
* Determine appropriate control logic, and implementation of those in PLC’s or microcontrollers.
* System identification of fuel cell, fuel processor, and balance of plant system dynamics to enhance overall stability and performance.
* Oversee fabrication and procurement of electrical components and equipment, ensuring safety standards are maintained.
* Design and develop testing equipment and electrical components for R&D fuel cell systems.

**Required:**

* Degree in Electrical Engineering or related fields. MSc is a plus
* Experience in control logic implementation
* Experience in simple control functions as PID controller, but also associated elements like rate limiter, saturators, reference tracking, lookup tables etc.
* Knowledge of advanced control methods, model predictive controls, state space, H infinity etc.
* Knowledge of advanced filtering like Kalman filtering, and simplified IIR and FIR filtering.
* Hand on approach, with focus on best practice and implementation.
* Knowledge of embedded software for control application. Language: C
* Experienced in PLC programming, preferable Beckhoff automations.

**Skills:**

* Strong analytical skills
* Troubleshooting and attention to detail
* Excellent verbal and written communication
* Flexibility and multitasking ability
* Strong organizational and communication skills
* Excellent English language proficiency

If you share this mentality, please send us a bio at careers@advent.energy with the corresponding code:**EEC\_Patras**

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