

# ioacademy CHALLENGE

Your future starts here and now!

1<sup>st</sup> Edition - 2018

## Overview

Would you like to experience a **new world of training?** - The best of academic formation combined with amazing professional experiences with the goal of improving your skills (technical and soft).

IOTech promotes **ioAcademy Challenge** – Innovation on Technology which is an event of "Career 4.0" - Student Career Management activities, aimed at an audience that is still a student, but that is looking for the first contact with companies and the world of work. This challenge is supported by Engineering School Pedagogical Council of the University of Minho.

Are you interested in making the difference and improving your CV? Don't miss this opportunity. Good Luck! 😊

## Goal

The **primary objective** is to **promote** the **transversal training** of **students**, helping them to know the realities of the world of work and contributing to their personal and professional skills.

## Dates

Are you interested in our challenge? Pay attention to the following **dates**:

- ✓ **Presentation:** April, 11
- ✓ **Phase 1:** April, 11
- ✓ Selection **results:** April, 11
- ✓ **Phase 2:** April 12 - April, 19
- ✓ **Presentation:** May, 2
- ✓ Final **decision:** May, 4
- ✓ **Phase 3:** May, 7

## Prizes

This **challenge** can **help** you **integrate** into a **professional world**. We **offer** you **professional challenges** and:

- ✓ **Mentoring** (can being renewed every academic semester until the end of the course);
- ✓ **Continuous formation** through online-learning platforms;
- ✓ The possibility of having **access** to a **Summer internship** (this prize is attributed according to the results achieved by the student during the formation process).

## Rules

This **challenge** is **open** to all **students**, and any student that **meet** the **admission terms** can participate. The **process starts** with the presentation of challenge at the University of Minho. The **first** selection **phase** is performed on the same day and immediately after the challenge being presented. In this phase, the participant needs to do a pitch, and we will evaluate their skills (technical and soft) and their desire to join to ioAcademy. This **selection process** is restricted, and the number of selected participants cannot be superior to 20 (twenty). After concluding the first phase, the selected students will advance to the phase 2 of the challenge.

In the **second phase**, each student can only candidate to an open position. The number of positions open by area is available. In this phase, the students must develop/present a solution according to the subject selected and project description. These projects can be developed alone or in a group (the project rules will be available after finishing the first phase). After receiving the project's solutions, the **final decision** is taken, and ten (ten) students can be selected. The maximum number of selected students did not include the dissertation process. In case of **not having** any **students interested** in some **project**, the respective area and open position are not considered.

Finally, the students involved in the development of best solutions for each area will be invited to **integrate ioAcademy**. The positions are open, however, if no one met the requirements the position is not fill.

## Phase Goals

### Phase 1 – Candidature and Pitch (60sec)

You must present your skills and answer to a simple question:

- ✓ Why are you interested in being a member of ioAcademy?
- ✓ What would you like to do in the future?

### Phase 2 – Project (10 Positions open + Dissertation)

We have positions open in the following areas /subjects:

- ✓ Interoperability (2-3);
- ✓ PWA (1);
- ✓ Templating (3-4);
- ✓ Marketing Digital (1);
- ✓ Networks and Cloud Computing (1);
- ✓ Management (1-2);
- ✓ Dissertation (2-3).

### Phase 3 – Start ioAcademy (by academic semester)

Have you completed all phases with success? Congratulations, you are an ioAcademy member, now. Be welcome!

Each **student** should **propose** a possible **solution** to the **area / subject selected**.

## Challenges

The **challenges** are:

1. **Interoperability** (Mongo DB and Node.js)
  - a. Payment system using 2 or more APIs;
  - b. ioEduc registration system.
2. **PWA**
  - a. ioEduc PWA
3. **Templating** (node.js with template engines or progressive frameworks (e.g. vue.js))
  - a. ioEduc template;
  - b. ioStore template.
4. **Marketing Digital** (2 or more marketing digital platforms, PDF)
  - a. Disseminate ioHub.
5. **Networks and Cloud Computing** (Google Cloud, Mongo DB and node.js)
  - a. Mongoddb running as a server and a app engine running a simple express app.
6. **Management** (PDF)
  - a. Project candidature regarding ioEduc;
  - b. Propose management approaches and guidelines that ioEduc project should follow.
7. **Dissertation** (email)
  - a. Your dissertation goals and personal desires;
  - b. Short CV.

Each **student** can only **submit one solution** to the **challenge** chosen (a or b) using the technologies proposed. It means that a **student** can have **excellent skills** but, if he is not the best / has not the best solution for the area chosen, he may **not** be **selected** although their qualities. You **must** make a **smart choice**.

The **challenges** proposed are based in **IOTech future needs**. Your skills are more important than your native knowledge. The proposed solutions must show what you are capable to do and what you know.

Final **solutions** must be send by **email** to [submission@challenge.ioacademy.iotech.pt](mailto:submission@challenge.ioacademy.iotech.pt). The **files** must be in an **archive file** (rar or zip) with the name: **Cz#xxxxxx** (where z is the challenge number and xxxxxx is the student number (e.g. C1#a99999)). In case of being a web solution (Google Cloud) you must send/share the link by email.

All **students** should **present** their **solution** in a public session. The **presentation** of solutions is scheduled to 2<sup>nd</sup> May.

## Admission Terms

- ✓ **Engineering areas:** Informatics, Information Systems, Communications, Technologies or similar;
- ✓ **Management areas/skills:** Marketing, Accounting, Management, Economics, Finance, Marketing and Strategy, Human Resources Management;

- ✓ **Knowledge** of Node.js and/or Networks and/or Cloud Computing or Knowledge of Management and project writing:
- ✓ **Registration rules** of ioAcademy Terms.

#### Info & Contacts

- ✓ <https://challenge.ioacademy.iotech.pt>
- ✓ <https://ioacademy.iotech.pt>
- ✓ [ioacademy@iotech.pt](mailto:ioacademy@iotech.pt)

You must read the Privacy and Terms of ioAcademy before made your application to ioAcademy challenge.