

# Internship Title : IoT/Sensor/Photonic internship

## Activities

We are looking for a passionate intern completing her/his Bachelor or Master's degree in the field of Electronics, IoT, Mechatronics for AirBliss+®. We developed the most comfortable smart breathing mask for prolonged hours and daily usage. We have launched an R&D project to develop a dust sensor prototype to allow us to integrate it in our smart wearable device. We have defined the scope, the protocol schematics and experimentation instrumentation. We are ready to execute the experimentation to benchmark state of the art PM2.5 sensors (Particulate Matter). We plan to separate the photonic/optic and electronics (to be integrated in our board) to miniaturize the sensor.

## Training goals

- Project management
- Develop miniaturized sensors for integration in wearable
- Design to cost
- Data analysis & reporting

## Competences to be acquired

Teamwork, Photonic/Optic, Electronic board development

## Technical and personal skills

Electronics, IoT, sensors, Photonic, Scientific experimentation

## Software Skills

- LabView and/or Matlab preferred
- Embedded software in C language preferably in one environment such as Arduino preferred
- Fluid simulation software experience to model airflow within the wearable is a plus
- Experience in developing Dashboard is a plus

## Language Skills

Professional English

## Target subject areas

AUTOMATION AND CONTROL ENGINEERING  
COMPUTER SCIENCE AND ENGINEERING  
ELECTRICAL ENGINEERING  
ELECTRONIC ENGINEERING  
ENGINEERING PHYSICS

MATERIALS ENGINEERING AND NANOTECHNOLOGY  
MATHEMATICAL ENGINEERING  
MECHANICAL ENGINEERING  
MOBILITY ENGINEERING  
SAFETY AND PREVENTION ENGINEERING IN THE PROCESS INDUSTRY TELECOMMUNICATION  
ENGINEERING

#### **OFFER DETAILS**

The internship is located in our lab in HighTech Campus in Eindhoven.

Duration: preferably 6 months, min. 3 months.

Type: Student, Part time – max. 20 hours per week or full time – max. 40 hours per week.

Apply by sending your CV to [info@airblissplus.com](mailto:info@airblissplus.com)