



**FAB LAB ATHENS** is a platform for the development of Digital Fabrication Technologies.

Fab Lab Athens explores how Digital Fabrication, Information and Communication Technologies applied in different disciplines can create more efficient economic, social, productive and education models in the different local contexts of the region of Greece as well as outside Greece.

**FAB LAB ATHENS** objectives are:

/to test and promote new economic, social and educational models in the local context of Greece and in the global scenario of the 3rd Industrial Revolution and the crisis societies

/to organize activities, research and educational programs related with Science fields of production, designing and communication (New Materialities/Internet of Things,/Automated Construction/Real time Data/ Smart Cities/The Science of DIY,/Collective Innovation/Open Source Design and more)

/to create an Open Lab that is accessible to local people, professionals, researchers, students, children and to anybody interested in learning and testing the uses and applications of digital fabrication technologies.

**FAB LAB ATHENS** project has the following partners:

NTUA (Hosting Organization) represented by Dimitris Papalexopoulos [[http://www.ntua.gr/index\\_en.html](http://www.ntua.gr/index_en.html)]

TEE/IEEKEM represented by Eleni Kalafati and Lambros Pyrgiotis [<http://www.iekemtee.gr/>]

GREEK FREE / OPEN SOURCE SOFTWARE SOCIETY (GFOSS) represented by Prodromos Tsiavos [<http://en.eellak.gr/>]

P2P FOUNDATION GREECE represented by George Papanikolaou [<http://p2pfoundation.net/Greece/>]

MyCity.me represented by Areti Markopoulou [<http://mycity.me/>]



# FABLAB ATHENS - GREECE

## Research Invention and Making Open Lab

<http://fablabathens.gr>

Hosted at the School of Architecture NTUA, Patission 42, Athens, Greece

**FAB LAB ATHENS** is an active node of the Digital Fabrication Laboratories network Fab Labs [<http://fab.cba.mit.edu/>], that are a platform for cooperation between people and organizations from different countries around the world.

Fab labs are conceived and designed to encourage the idea that anyone can fabricate/make anything anywhere in the world by sharing technological and social knowledge and by using machines of digital manufacturing.

The project emerged from a program launched by The Center for Bits and Atoms (CBA) [<http://cba.mit.edu/>] of MIT [<http://web.mit.edu/>] and is led by physicist Neil Gershenfeld (director of CBA). The project of Fab Labs has extended from laboratories in downtown Boston to rural India, South Africa, Norway, Spain, Afghanistan, Kenya and more. All Fab Labs work in coordination through the Internet and a video conference network, and they meet annually in a global event.

The Fab Lab programme explores how the content of information relates to physical representation.

The Fab Labs are laboratories of personal digital fabrication in which it is possible to make almost anything, from a computer measuring 1 cm by 1 cm to an intelligent house. These labs are distributed in various parts of the world and connected to each other by way of the Internet and video conferencing, which allows the sharing of experiences and with it the creation of a network of distributed knowledge.

The Fab Labs use advanced techniques and technologies which are being made accessible to everyone. They are equipped with state-of-the-art equipment such as laser cutters, 3-dimensional printers and milling machines as well as electronic components.



## Workshops

Fab Lab Athens agenda includes a series of workshops offered to professionals, students as well as all interested citizens

### 1. PROFESIONALS

from the field of engineering, architecture, computer science, design etc

### 2. STUDENTS

form the field of architecture, engineering, physic, telecommunications, computer science, sociology, design etc

### 3. CITIZENS

plain citizens with no education in design, production or fabrication, children and others

## Research

FAB LAB seeks for developing new research programs both independent and connected with the University. Some of the topics of the research initiatives are related with:

### 1. Cities

(how to use the new technology to produce new ways of mapping information, extracting existing data and logics, create interfaces able to interact with the users, propose new ways of inhabiting, performing, transforming the city into an adorable living organism in equilibrium and direct interaction with its environment and their users)

## 2. Energy and Intelligent objects

(how to think of a new family of objects embaded with artificial intelligence that can collect and process data related with energy collection and saving through a series of principles of interaction)

## 3. New Materialities

(how to use advance fabrication and electronic techniques to create new materials with controled properties. Experimenting with forms generated by new intelligent materials, a step beyond existing rapid manufacturing techniques, self formed objects etc).

## Invention and Making

FAB LAB ATHENS in the effort of promoting Invention and learning through Making proposes a series of actions such as:

- OPEN LAB Athens (Social events)
- Events/Sharing with Community/Diffusion
- FAB Academy Athens
- FAB LAB Workshops

FAB LAB ATHENS is interested in researching and take action in

1. current phenomenos, (global and local economical crisis, cities interventions etc)
2. science fields of production, designing, communication etc
3. allowing new inventions to happen by offering the infrastructure as well as the knowledge that is gained out of making, the goal is that we offer the tools and we allow creativity and experimenting to lead to specific results based on innovation.



## Communication

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